



**GENESYS**<sup>™</sup> G Series

Programmable DC Power Supplies Full-Rack 1kW/1.7kW/2.7kW/3.4kW/5kW/7.5kW in 1U Height GSP 10kW/15kW in 2U/3U Height

# ! Advanced Features Built-In!

• Arbitrary Waveform Generator with Auto-Trigger Capability

Programmable Slew Rate Control (Vout/Iout)

• Constant Power Limit Operation • Internal Resistance Programming

• Built-In Remote Isolated Analog Interface

• Built-In LAN (LXI 1.5), USB, and RS-232/RS-485 Interfaces

• Optional EtherCAT, Modbus-TCP, IEEE (488.2) Interfaces

• Blank Front Panel Option Available





Trusted • Innovative • Reliable



The **GENESYS™** family of programmable power supplies sets a new standard for flexible, reliable, AC/DC power systems in OEM, Industrial and Laboratory applications.

#### **Features include:**

- Leading DC Programmable power density (7.5kW in 1U height, 10kW/15kW in 2U/3U height) in 19" rack-mount
- Light-weight 5kW<7.5 kg, 7.5kW<8.5 kg, GSP 10kW<15.5 kg, 15kW<23.5 kg</li>
- Wide Range of popular worldwide AC inputs:
  - G1kW/1.7kW: 1ø (85~265VAC)
  - G2.7kW / G3.4kW: 1ø (170~265VAC), 3ø (208VAC, 400VAC)
  - G5kW / G7.5kW / GSP10kW / 15kW: 3ø (208VAC, 400VAC & 480VAC), Wide-range 3ø 480VAC (342VAC ~ 528VAC)
- Active PFC (0.94 typical)
- Output Voltage up to 1500V, Current up to 1500A
- Built-in LAN (LXI 1.5), USB, RS-232/RS-485 Interface
- Multi-Drop capability (RS-485)
- Multi-functional front panel display
- Last-Setting Memory
- Auto-Start / Safe-Start: user selectable
- High Resolution 16 bit ADCs & DACs
- Arbitrary Waveform Generator with Auto-Trigger Capability
- Store up to 100 steps into four internal memory cells
- High-speed Programming
- Constant Voltage/Constant Current operation modes
- · Constant Power (CP) Limit
- Slew-Rate Control (V/I)
- Internal Resistance Programming Simulation
- Local / Remote Sensing software controlled
- Built-In Remote Isolated Analog Program/Monitor and Control Interface
- Protection functions (OVP, UVP, UVL, FOLD (CV/CC), OCL, OTP, AC FAIL)
- · Fan speed controlled by ambient temperature and load
- Certified LabWindows™/CVI, LabVIEW™, and IVI Drivers
- Optional EtherCAT, Modbus-TCP, IEEE (488.2) Interfaces
- 19" Rack Mount capability for ATE and OEM application
- Scalable Power Systems of 10kW and 15kW
- Parallel Systems (up to 60kW) with Auto-Configure
- Worldwide Safety Agency approvals
- CE Mark for Low Voltage, EMC and RoHS3 Directives
- · Five year warranty

#### **Applications**

**G**ENESYS<sup>™</sup> power supplies have been designed to meet the demands of a wide variety of applications.

Test & Measurement systems, Component Device Testing, Manufacturing and process control.

Semiconductor Processing & Burn-In, Aerospace & Satellite Testing, Medical Imaging, Green Technology.

**Higher power systems** can be configured with up to twelve (12) 7.5kW units. Each unit is 1U with zero space between them (zero stack).

**OEM Designers** have a wide variety of Inputs and Outputs from which to select depending on application and location.

#### **G1kW-7.5kW Front Panel Description**



- 1. Input Power ON/OFF Switch
- 2. Air Intake allows zero stacking for maximum system flexibility and power density.
- 3. Reliable Detent Encoders for settings and Menu navigation.
- 4. High Contrast/Brightness display with wide viewing angle, 16 segment LCD
- 5. Function/Status LEDs: Active modes and function indicators
- 6. Pushbuttons allow flexible user configuration

#### **G1kW-5kW Rear Panel Description**



- 1. Isolated Analog Programming, Monitoring and other control connector (DB26 Female)
- 2. USB Interface connector (Type B).
- 3. RS-232/RS-485 IN/OUT Remote Digital Interface (RJ-45 type) for Multi-Drop connection
- 4. LAN (LXI 1.5) Interface connector (RJ-45 type with LAN status indicators).
- 5. Auto paralleling Bus connectors (mini I/O type) for connecting Master Unit-to-Slave and Slave Unit-to-Slave unit.
- 6. Remote/Local Output Voltage Sense Connections (spring cage).
- 7. Output Connections: Rugged busbars (shown) for models up to and including 100V Output; Plug connector: PHOENIX CONTACT IPC 5/4-STF-7.62 for models with Outputs >100V.
- 8. G2.7kW / G3.4kW / G5kW AC Input: 208VAC, 400VAC & 480VAC, Three Phase, 50/60 Hz. (Model shown) AC Input Plug Connector: PHOENIX CONTACT Power Combicon PC 5/4-STCL1-7.62 Series with strain relief. G1.7kW / G2.7kW / G3.4kW AC Input Single Phase, 50/60 Hz. AC Input Plug Connector: PHOENIX CONTACT Power Combicon PC 5/3-STCL1-7.62 Series with strain relief. G1kW AC Input Connector: IEC320 C16.
- 9. Optional Interface Position for IEEE 488.2 SCPI or AnyBus Interface.
- 10. Exhaust air assures reliable operation when units are zero stacked.
- 11. Functional Ground connection (M4x8mm stud).
- 12. Reset button. Set default Power Supply settings.

#### **G7.5kW Rear Panel Description**



- 1. Isolated Analog Programming, Monitoring and other control connector (DB26 Female)
- 2. USB Interface connector (Type B).
- 3. RS-232/RS-485 IN/OUT Remote Digital Interface (RJ-45 type) for Multi-Drop connection
- 4. LAN (LXI 1.5) Interface connector (RJ-45 type with LAN status indicators).
- 5. Auto paralleling Bus connectors (mini I/O type) for connecting Master Unit-to-Slave and Slave Unit-to-Slave unit.
- Remote/Local Output Voltage Sense Connections.
   Plug connector: PHOENIX CONTACT GIC 2,5 HCV/ 3-ST-7,62 1745632
- 7. Output Connections: Rugged busbars (shown) for models up to and including 1500V Output;
- 8. G7.5kW: AC Input: 480VAC, Three Phase, 50/60 Hz. (Model shown)
  AC Input Plug Connector: PHOENIX CONTACT Power Combicon PC 5/4-STCL1-7.62 Series with strain relief.
  AC Input: 208VAC, Three Phase, 50/60 Hz.
  AC Input Plug Connector: PHOENIX CONTACT DFK-IPC 16/4-STF-10.16 with strain relief.
- 9. Optional Interface Position for IEEE 488.2 SCPI or AnyBus Interface.
- 10. Exhaust air assures reliable operation when units are zero stacked.
- 11. Functional Ground connection (M4x8mm stud).
- 12. Reset button. Set default Power Supply settings.

#### **GSP10kW Front Panel Description**



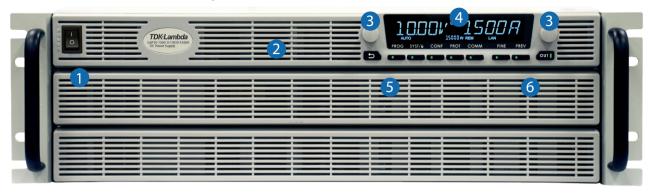
- 1. Input Power ON/OFF Switch
- 2. Air Intake allows zero stacking for maximum system flexibility and power density.
- 3. Reliable Detent Encoders for settings and Menu navigation.
- 4. High Contrast/Brightness display with wide viewing angle, 16 segment LCD
- 5. Function/Status LEDs: Active modes and function indicators
- 6. Pushbuttons allow flexible user configuration

#### **GSP10kW Rear Panel Description**



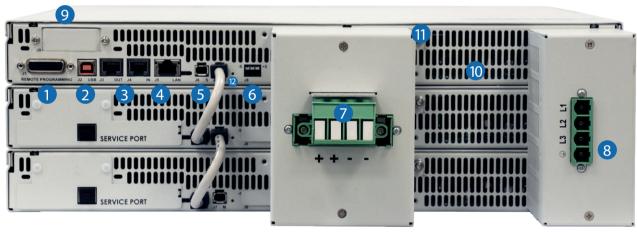
- 1. Isolated Analog Programming, Monitoring and other control connector (DB26 Female)
- 2. USB Interface connector (Type B).
- 3. RS-232/RS-485 IN/OUT Remote Digital Interface (RJ-45 type) for Multi-Drop connection
- 4. LAN (LXI 1.5) Interface connector (RJ-45 type with LAN status indicators).
- 5. Auto paralleling Bus connectors (mini I/O type) for connecting Master unit-to-Slave and Slave unit-to-Slave unit.
- 6. Remote/Local Output Voltage Sense Connections (spring cage).
- Output Connections: Rugged busbars (shown) for models up to and including 100V Output;
   Plug connector: PHOENIX CONTACT DFK-IPC 16/4-STF-10.16 for models with Outputs >100V.
- 8. Input: 208VAC, 400VAC & 480VAC Three Phase, 50/60 Hz. AC Input Plug Connector: PHOENIX CONTACT DFK-IPC 16/4-STF-10.16 with strain relief.
- 9. Optional Interface Position for IEEE 488.2 SCPI or AnyBus Interface.
- 10. Exhaust air assures reliable operation when zero stacked.
- 11. Functional Ground connection (M4x8mm stud).
- 12. Reset button. Set default Power Supply settings.

#### **GSP15kW Front Panel Description**



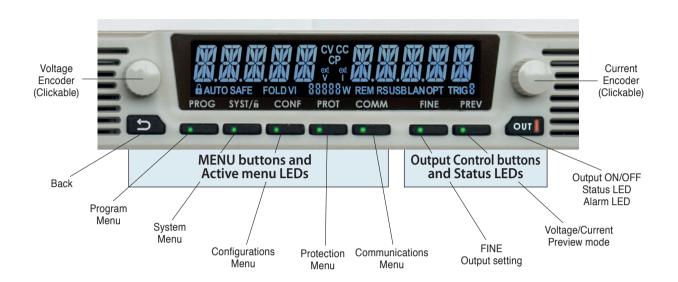
- 1. Input Power ON/OFF Switch
- 2. Air Intake allows zero stacking for maximum system flexibility and power density.
- 3. Reliable Detent Encoders for settings and Menu navigation.
- 4. High Contrast/Brightness display with wide viewing angle, 16 segment LCD
- 5. Function/Status LEDs: Active modes and function indicators
- 6. Pushbuttons allow flexible user configuration

#### **GSP15kW Rear Panel Description**

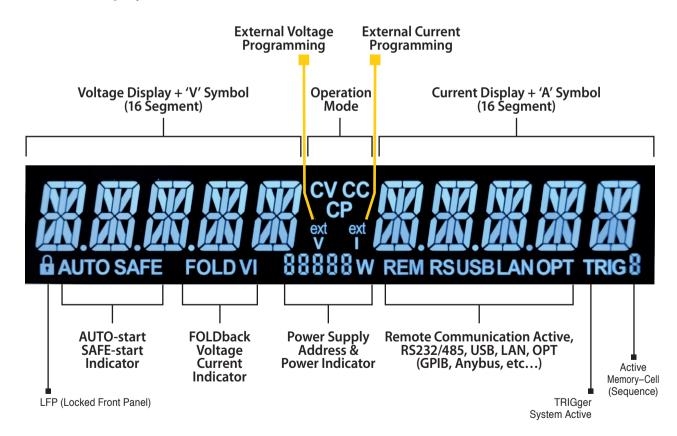


- 1. Isolated Analog Programming, Monitoring and other control connector (DB26 Female)
- 2. USB Interface connector (Type B).
- 3. RS-232/RS-485 IN/OUT Remote Digital Interface (RJ-45 type) for Multi-Drop connection
- 4. LAN (LXI 1.5) Interface connector (RJ-45 type with LAN status indicators).
- 5. Auto paralleling Bus connectors (mini I/O type) for connecting Master unit-to-Slave and Slave unit-to-Slave unit.
- 6. Remote/Local Output Voltage Sense Connections (spring cage).
- Output Connections: Rugged busbars for models up to and including 100V Output;
   Plug connector: PHOENIX CONTACT DFK-IPC 16/4-STF-10.16 for models with Outputs >100V (shown).
- 8. Input: 208VAC, 400VAC & 480VAC Three Phase, 50/60 Hz. AC Input Plug Connector: PHOENIX CONTACT DFK-PC 16/4-ST-10.16 with strain relief.
- 9. Optional Interface Position for IEEE 488.2 SCPI or AnyBus Interface.
- 10. Exhaust air assures reliable operation when zero stacked.
- 11. Functional Ground connection (M4x8mm stud).
- 12. Reset button. Set default Power Supply settings.

#### **Front Panel Display MENU/CONTROL buttons:**



#### **Front Panel Display indicators**





A Blank Front Panel is available for applications where the front panel display and controls are not required and only remote interface (Digital/Analog) is needed.

The Blank Front Panel option has all the standard product functions and features except the display.

The power supply can be controlled via the rear panel Remote digital interface

(LAN, USB, RS-232/RS-485) or via the remote Isolated Analog interface.

#### **G**ENESYS<sup>™</sup> Parallel and Series Configurations

#### Parallel operation - Master/Slave:

Auto paralleling Scalable Master-Slave Operation. Active current sharing allows up to twelve (12) identical units to be connected

Total real current is programmed measured and reported by the Master. Up to twelve (12) supplies operate as one.

Separate Parallel Kit available for 30kW (6 unit) systems allowing easy system setup.

Order P/N: G/P - 6U

# Standard Unit - zero stacked up to 12 units

Standard & Blank - zero stacked up to 12 units



#### **Series operation**

Two units may be connected in series to increase the output voltage or to provide bipolar output. (Max 600V to Chassis Ground).

#### **Multi-Drop Remote Programming via Communication Interface**

Standard Built-in LAN, USB, RS-232 & RS-485 allows "Multi-Drop" daisy-chain control of up to 31 Power supplies on the same communication bus. Can be Daisy chained via built-in RS-485 Interface.

- First unit is LAN, USB, RS-232, RS-485, etc.
- All other units use RS-485 daisy chain with linking cable.





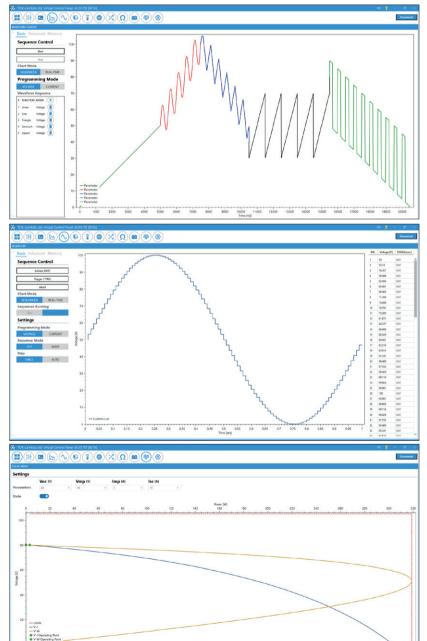


#### **Graphical User Interface**

Advanced "Virtual Control Panel" allows programming and monitoring unit(s) with or without front panel display.

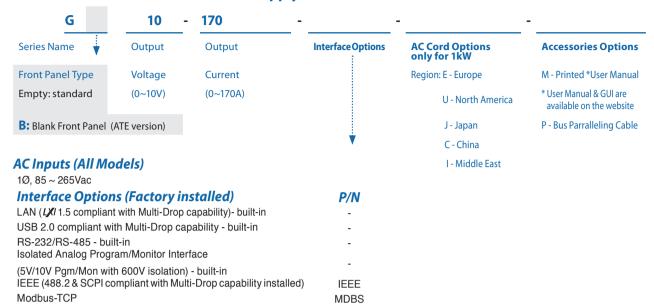
- 1. 1. Control and monitor DC Programmable Power Supply Series (GENESYS+, GENESYS and Z+).
- 2. Automatically detect power supplies connected to a PC and/or local network.
- 3. Advanced Terminal, including Modbus-TCP and EtherCAT communication interfaces.
- 4. 4. Real-time Graph and Waveform creator, including pre-built functions i.e. Sine, Triangle and Square.
- 5. Solar array simulation based on VOC, VMP, IMP, ISC.
- 6. 6. Advanced functions control Slew-Rate, Internal Resistance and Constant Power.
- 7. 7. Multi-Model Monitoring and Control Panel.
- 8. 8. Individual and Global commands control.

#### **GUI Waveform Profile Generator**



(W)

#### How to order G1kW/1.7kW - Power Supply Identification / Accessories



**ECAT** 

IS420

#### **Models 1kW**

(4mA-20mA with 600V isolation)

Isolated Analog Current Program/Monitor Interface

EtherCAT

	-					
Model	Voltage (V)	Current (A)	Power (W)	Model	Voltage (V)	Current (A)
G10-100	0~10V	0~100	1000	G80-12.5	0~80V	0~12.5
G20-50	0~20V	0~50	1000	G100-10	0~100V	0~10
G30-34	0~30V	0~34	1020	G150-7	0~150V	0~7
G40-25	0~40V	0~25	1000	G300-3.5	0~300V	0~3.5
G60-17	0~60V	0~17	1020	G600-1.7	0~600V	0~1.7

#### Models 1.7kW

Model	Voltage (V)	Current (A)	Power (W)	Model	Voltage (V)	Current (A)	Power
G10-170	0~10V	0~170	1700	G80-21	0~80V	0~21	1680
G20-85	0~20V	0~85	1700	G100-17	0~100V	0~17	1700
G30-56	0~30V	0~56	1680	G150-11.2	0~150V	0~11.2	1680
G40-42	0~40V	0~42	1680	G300-5.6	0~300V	0~5.6	1680
G60-28	0~60V	0~28	1680	G600-2.8	0~600V	0~2.8	1680

#### **Accessories**

Accessories will be sent separately from the Power Supply packing, according to order.

1. Serial Communication cable. RS-232/RS-485 cable is used to connect the power supply to the Host PC.

Mode	RS-485	RS-232
PC Connector, Communication Cable, Power Supply Connector	DB-9F. Shielded L=2m. RJ-45	DB-9F. Shielded L=2m, RJ-45
P/N	GEN/485-9	GEN/232-9

#### 2. Serial link cable (Included with the power supply)

Daisy-chain up to 31 GENESYS™ power supplies.

Mode	Power Supply Connector	Communication Cable	P/N
RS-485	RJ-45	Shielded L=50cm	GEN/RJ45

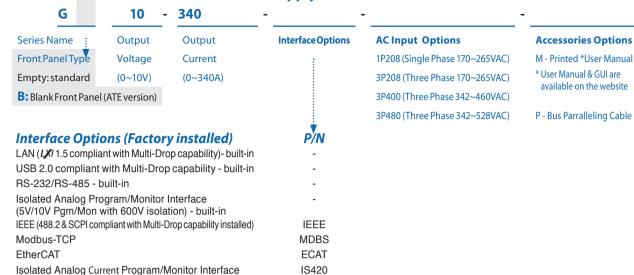
#### 3. Bus Paralleling cable

Connectors	Cables	P/N
2013595-1 (TYCO)	Shielded L=11cm	G/P

#### 4. User Manual

Printed User Manual	G/M

#### How to order G2.7kW/3.4kW - Power Supply Identification / Accessories



#### Models G2.7kW

(4mA-20mA with 600V isolation)

Model	Output Voltage VDC	Output Current (A)	Output Power (W)
G10-265	0~10V	0~265	2650
G20-135	0~20V	0~135	2700
G30-90	0~30V	0~90	2700
G40-68	0~40V	0~68	2720
G60-45	0~60V	0~45	2700

Model	Output Voltage VDC	Output Current (A)	Output Power (W)
G80-34	0~80V	0~34	2720
G100-27	0~100V	0~27	2700
G150-18	0~150V	0~18	2700
G300-9	0~300V	0~9	2700
G600-4.5	0~600V	0~4.5	2700

#### **Models G3.4kW**

Model	Output Voltage VDC	Output Current (A)	Output Power (W)
G10-340	0~10V	0~340	3400
G20-170	0~20V	0~170	3400
G30-112	0~30V	0~112	3360
G40-85	0~40V	0~85	3400
G60-56	0~60V	0~56	3360

Model	Output Voltage VDC	Output Current (A)	Output Power (W)
G80-42	0~80V	0~42	3360
G100-34	0~100V	0~34	3400
G150-22.5	0~150V	0~22.5	3375
G300-11.5	0~300V	0~11.5	3450
G600-5.6	0~600V	0~5.6	3360

#### **Accessories**

Accessories will be sent separately from the Power Supply packing, according to order.

1. Serial Communication cable. RS-232/RS-485 cable is used to connect the power supply to the Host PC.

Mode	RS-485	RS-232
PC Connector, Communication Cable, Power Supply Connector	DB-9F. Shielded L=2m. RJ-45	DB-9F. Shielded L=2m, RJ-45
P/N	GEN/485-9	GEN/232-9

#### 2. Serial link cable (Included with the power supply)

Daisy-chain up to 31 **GENESYS**<sup>™</sup> power supplies.

Mode	Power Supply Connector	Communication Cable	P/N
RS-485	RJ-45	Shielded L=50cm	GEN/RJ45

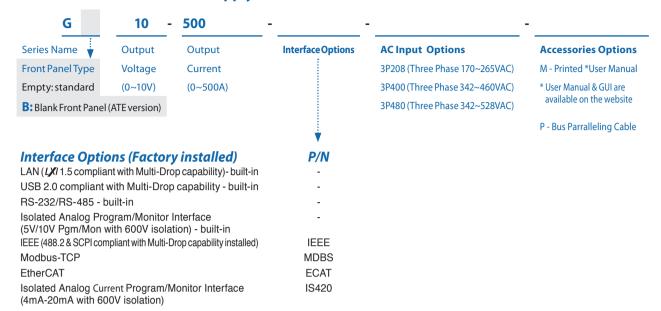
#### 3. Bus Paralleling cable

Connectors	Cables	P/N
2013595-1 (TYCO)	Shielded L=11cm	G/P

#### 4. User Manual

Printed User Manual	G/M
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#### How to order G5kW - Power Supply Identification / Accessories



#### **Models 5kW**

Model	Voltage (VDC)	Current (A)	Power (W)
G10-500	0~10V	0~500	5000
G20-250	0~20V	0~250	5000
G30-170	0~30V	0~170	5100
G40-125	0~40V	0~125	5000
G50-100	0~50V	0~100	5000
G60-85	0~60V	0~85	5100
G80-65	0~80V	0~65	5200

Model	Voltage (VDC)	Current (A)	Power (W)
G100-50	0~100V	0~50	5000
G150-34	0~150V	0~34	5100
G200-25	0~200V	0~25	5000
G300-17	0~300V	0~17	5100
G400-13	0~400V	0~13	5200
G500-10	0~500V	0~10	5000
G600-8.5	0~600V	0~8.5	5100

#### Accessories

Accessories will be sent separately from the Power Supply packing, according to order.

#### 1. Serial Communication cable

RS-232/RS-485 cable is used to connect the power supply to the Host PC.

Mode	RS-485	RS-232
PC Connector Communication Cable Power Supply Connector	DB-9F Shielded L=2m RJ-45	DB-9F Shielded L=2m RJ-45
P/N	GEN/485-9	GEN/232-9

#### 2. Serial link cable (Included with the power supply)

Daisy-chain up to 31 **GENESYS**<sup>™</sup> power supplies.

Mode	Power Supply Connector	Communication Cable	P/N
RS-485	RJ-45	Shielded L=50cm	GEN/RJ45

#### 3. Bus Paralleling cable

Connectors	Cables	P/N
2013595-1 (TYCO)	Shielded L=11cm	G/P

### 4. User Manual

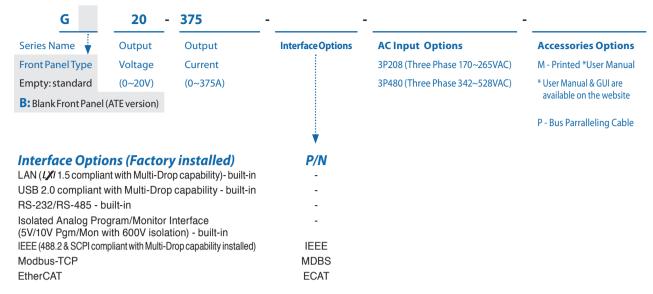
Printed User Manual	G/M

#### 5. Parallel Kit: 20kW/30kW

G/P-4U: BusBar Parallel Kit for 20 kW operation (5kW Models where Vout up to 100V)

G/P-6U: BusBar Parallel Kit for 30 kW operation (5kW Models where Vout up to 100V)

#### How to order G7.5kW - Power Supply Identification / Accessories



#### Models 7.5kW

Model	Voltage (VDC)	Current (A)	Power (W)
G20-375	0~20V	0~375	7500
G40-188	0~40V	0~188	7520
G100-75	0~100V	0~75	7500
G150-50	0~150V	0~50	7500
G600-12.5	0~600V	0~12.5	7500
G1500-5	0~1500V	0~5	7500

Model	Voltage (VDC)	Current (A)	Power (W)
G30-250	0~30V	0~250	7500
G60-125	0~60V	0~125	7500
G80-94	0~80V	0~94	7500
G200-37.5	0~200V	0~37.5	7500
G300-25	0~300V	0~25	7500
G1000-7.5	0~1000V	0~7.5	7500

Model A

■ Model B

#### **Accessories**

Accessories will be sent separately from the Power Supply packing, according to order.

#### 1. Serial Communication cable

RS-232/RS-485 cable is used to connect the power supply to the Host PC.

Mode	RS-485	RS-232
PC Connector Communication Cable Power Supply Connector	DB-9F Shielded L=2m RJ-45	DB-9F Shielded L=2m RJ-45
P/N	GEN/485-9	GEN/232-9

#### 2. Serial link cable (Included with the power supply)

Daisy-chain up to 31 **GENESYS**<sup>™</sup> power supplies.

Mode	Power Supply Connector	Communication Cable	P/N
RS-485	RJ-45	Shielded L=50cm	GEN/RJ45

#### 3. Bus Paralleling cable

Connectors	Cables	P/N
2013595-1 (TYCO)	Shielded L=11cm	G/P

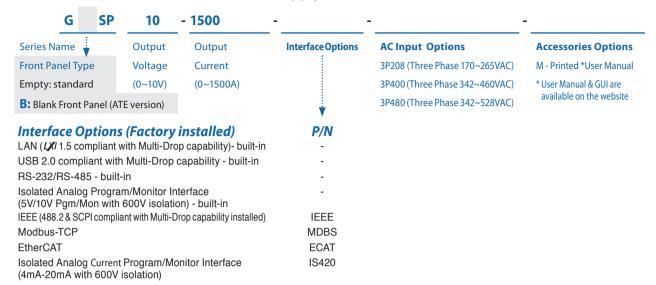
#### 4. User Manual

Printed User Manual	G/M

#### 5. Parallel Kit: 30kW/45kW

G/P-4U: BusBar Parallel Kit for 30 kW operation G/P-6U: BusBar Parallel Kit for 45 kW operation

#### How to order GSP10kW-15kW - Power Supply Identification / Accessories



#### **Models GSP 10kW**

Model	Voltage (VDC)	Current (A)	Power (kW)
GSP10-1000	0~10V	0~1000	10
GSP20-500	0~20V	0~500	10
GSP30-340	0~30V	0~340	10.2
GSP40-250	0~40V	0~250	10
GSP50-200	0~50V	0~200	10
GSP60-170	0~60V	0~170	10.2
GSP80-130	0~80V	0~130	10.4

Model	Voltage (VDC)	Current (A)	Power (kW)
GSP100-100	0~100V	0~100	10
GSP150-68	0~150V	0~68	10.2
GSP200-50	0~200V	0~50	10
GSP300-34	0~300V	0~34	10.2
GSP400-26	0~400V	0~26	10.4
GSP500-20	0~500V	0~20	10
GSP600-17	0~600V	0~17	10.2

#### Models GSP 15kW

Model	Voltage (VDC)	Current (A)	Power (kW)
GSP10-1500	0~10V	0~1500	15
GSP20-750	0~20V	0~750	15
GSP30-510	0~30V	0~510	15.3
GSP40-375	0~40V	0~375	15
GSP50-300	0~50V	0~300	15
GSP60-255	0~60V	0~255	15.3
GSP80-195	0~80V	0~195	15.6

Model	Voltage (VDC)	Current (A)	Power (kW)
GSP100-150	0~100V	0~150	15
GSP150-102	0~150V	0~102	15.3
GSP200-75	0~200V	0~75	15
GSP300-51	0~300V	0~51	15.3
GSP400-39	0~400V	0~39	15.6
GSP500-30	0~500V	0~30	15
GSP600-25.5	0~600V	0~25.5	15.3

#### **Accessories**

Accessories will be sent separately from the Power Supply packing, according to order.

#### 1. Serial Communication cable

RS-232/RS-485 cable is used to connect the power supply to the Host PC.

Mode	RS-485	RS-232
PC Connector	DB-9F	DB-9F
Communication Cable	Shielded L=2m	Shielded L=2m
Power Supply Connector	RJ-45	RJ-45
P/N	GEN/485-9	GEN/232-9

#### 2. Bus Paralleling cable (Included with the power supply)

Connectors	Cables	P/N
2013595-1 (TYCO)	Shielded L=11cm	G/P

#### 3. User Manual

Printed User Manual	G/M

### **G**ENESYS™ Family Output Voltage and Current

Models Series	G (Std Front Panel Display) GB (Blank Front Panel Display)						GSP/GBSP (Scalable Power)	
Rated Power	1kW	1.7kW	2.7kW	3.4kW	5kW	7.5kW	10kW	15kW
Voltage Range				Current F	Range (A)			
0-10V	0~100A	0~170A	0~265A	0~340A	0~500A	-	0~1000A	0~1500A
0-20V	0~50A	0~85A	0~135A	0~170A	0~250A	0~375A	0~500A	0~750A
0-30V	0~34A	0~56A	0~90A	0~112A	0~170A	0~250A	0~340A	0~510A
0-40V	0~25A	0~42A	0~68A	0~85A	0~125A	0~188A	0~250A	0~375A
0-50V	-	-	-	-	0~100A	-	0~200A	0~300A
0-60V	0~17A	0~28A	0~45A	0~56A	0~85A	0~125A	0~170A	0~255A
0-80V	0~12.5A	0~21A	0~34A	0~42A	0~65A	0~94A	0~130A	0~195A
0-100V	0~10A	0~17A	0~27A	0~34A	0~50A	0~75A	0~100A	0~150A
0-150V	0~7A	0~11.2A	0~18A	0~22.5A	0~34A	0~50A	0~68A	0~102A
0-200V	-	-	-	-	0~25A	0~37.5A	0~50A	0~75A
0-300V	0~3.5A	0~5.6A	0~9A	0~11.5A	0~17A	0~25A	0~34A	0~51A
0-400V	-	-	-	-	0~13A	-	0~26A	0~39A
0-500V	-	-	-	-	0~10A	-	0~20A	0~30A
0-600V	0~1.7A	0~2.8A	0~4.5A	0~5.6A	0~8.5A	0~12.5A	0~17A	0~25.5A
0-1000V	-	-	-	-	-	0~7.5A	-	-
0-1500V	-	-	-	-	-	0~5A	-	-
Weight (kg/lb)	5/11	5/11	6.25/14.3	6.25/14.3	7.5/16.5	8.5/18.7	15.5/34.2	23.5/51.8

**AC Input Range** 

Rated Power	1kW	1.7kW	2.7kW	3.4kW	5kW	7.5kW	10kW	15kW
1Ø, 85-265Vac	*	*	N/A	N/A	N/A	N/A	N/A	N/A
1Ø, 170-265Vac			*	*	N/A	N/A	N/A	N/A
3P208	N/A	N/A	*	*	*	*	*	*
3P400	N/A	N/A	*	*	*	N/A	*	*
3P480	N/A	N/A	*	*	*	*	*	*

3P208 (Three Phase 170~265VAC), 3P400 (Three Phase 342~460VAC), 3P480 (Three Phase 342~528VAC)

### Also available GH 1kW/1.5kW Series Half-Rack 1kW/1.5kW in 1U Height



#### **Models 1kW**

Model	Voltage (V)	Current (A)	Power (W)
GH10-100	0~10V	0~100	1000
GH20-50	0~20V	0~50	1000
GH30-34	0~30V	0~34	1020
GH40-25	0~40V	0~25	1000
GH60-17	0~60V	0~17	1020

lodel	Voltage (V)	Current (A)	Power (W)	Model	Voltage (V)	Current (A)	Power (W)
H10-100	0~10V	0~100	1000	GH80-12.5	0~80V	0~12.5	1000
H20-50	0~20V	0~50	1000	GH100-10	0~100V	0~10	1000
H30-34	0~30V	0~34	1020	GH150-7	0~150V	0~7	1050
H40-25	0~40V	0~25	1000	GH300-3.5	0~300V	0~3.5	1050
H60-17	0~60V	0~17	1020	GH600-1.7	0~600V	0~1.7	1020

#### **Models 1.5kW**

Model	Voltage (V)	Current (A)	Power (W)
GH10-150	0~10V	0~150	1500
GH20-75	0~20V	0~75	1500
GH30-50	0~30V	0~50	1500
GH40-38	0~40V	0~38	1520
GH60-25	0~60V	0~25	1500

Model	Voltage (V)	Current (A)	Power (W)
GH80-19	0~80V	0~19	1520
GH100-15	0~100V	0~15	1500
GH150-10	0~150V	0~10	1500
GH300-5	0~300V	0~5	1500
GH600-2.6	0~600V	0~2.6	1560

### **G**ENESYS™ 1kW SERIES SPECIFICATIONS

OUTPUT RATING	G	10-100	20-50	30-34	40-25	60-17	80-12.5	100-10	150-7	300-3.5	600-1.7
1.Rated output voltage(*1)	٧	10	20	30	40	60	80	100	150	300	600
2.Rated output current (*2)	Α	100	50	34	25	17	12.5	10	7	3.5	1.7
3.Rated output power	W	1000	1000	1020	1000	1020	1000	1000	1050	1050	1020
INPUT CHARACTERISTICS	V	10	20	30	40	60	80	100	150	300	600
1.Input voltage/freq. (*3)			ontinuous, 47	~63Hz, Single	Phase						
2. Maximum Input current at 100% load (100/200)	Α	12.5/6.5									
3.Power Factor (Typ) 4.Efficiency at 100 Vac/200Vac, rated output (*17)	%	0.99 @ 100Va 86/88	c 0.98 @ 200 87/89	Vac, rated out 87/89	put power. 87/89	87/89	87/89	88/90	88/90	88/90	88/90
5.Inrush current (*5)	70 A	Less than 50A		0//09	0//09	0//09	0//09	00/90	00/90	00/90	00/90
			1	20	40	- 60		100	150	200	500
CONSTANT VOLTAGE MODE	V	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*6)			d output volta	-							
2.Max. Load regulation (*7) 3.Ripple and noise (p-p, 20MHz) (*8)	mV	50	d output volta 50	50	60	60	75	75	75	120	500
4.Ripple r.m.s. 5Hz~1MHz (*8)	mV	6	6	6	7	7	10	12	9	20	100
5.Temperature coefficient	PPM/°C			ut voltage, fol				12		20	100
6.Temperature stability							o. Constant line	e. load & temi	n.		
7. Warm-up drift							ving power on				
8.Remote sense compensation/wire (*10)	V	2	2	5	5	5	5	5	5	5	5
9.Up-prog. Response time (*11)	mS	35	35	35	35	35	35	40	50	100	100
Full load (*12)	mS	35	30	60	60	60	60	80	120	220	220
10.Down-prog.response time: No load (*12)	mS	500	700	1000	1200	1500	1700	2600	2900	4600	4600
11.Transient response time	mS	Time for outp	out voltage to	recover within	n 0.5% of its ra	ted output fo	r a load chang	e 10~90% of	rated output o	urrent. Outpu	t set-point:
·				than 1mS, for	models up to	and including	g 100V. 2mS, fo	or models abo	ve 100V.		
12.Start up delay	Sec	Less than 6 Se	ec .								
13.Hold-up time	mS				201	ms typical, rat	ed output pov	wer			
CONSTANT CURRENT MODE	V	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*6)		0.02% of rate	d output curr	ent. +2mA							
2.Max. Load regulation (*9)		0.02% of rate	d output curr	ent. +5mA							
3.Ripple r.m.s. @ rated voltage. B.W 5Hz~1MHz. (*13)	mA	≤420	≤160	≤100	≤60	≤50	≤30	≤20	≤10	≤8	≤5
5.Temperature coefficient	PPM/°C	10V~100V	100PPM/°C fr	om rated outp	out current, fol	llowing 30 mi	nutes warm-u	o.			
3.Temperature coefficient	11 W// C						utes warm-up.				
6.Temperature stability							o. Constant line				
7. Warm-up drift							minutes follo		n.		
		150V~600V: L	ess than +/-0	.15% of rated o	output current	over 30 minu	tes following p	power on.			
ANALOG PROGRAMMING AND MONITORING (ISOLATED	FROMT	HE OUTPUT)									
1.Vout voltage programming		0~100%, 0~5	V or 0~10V, us	er selectable.	Accuracy and	linearity: +/-0	.15% of rated \	/out.			
2.lout voltage programming (*14)		0~100%, 0~5	V or 0~10V, us	er selectable.	Accuracy and	linearity: +/-0	.4% of rated Io	out.			
3. Vout resistor programming		0~100%, 0~5	/10Kohm full	scale, user sele	ectable. Accur	acy and linear	ity: +/-0.5% of	rated Vout.			
4.lout resistor programming (*14)		0~100%, 0~5	/10Kohm full	scale, user sele	ectable. Accur	acy and linear	ity: +/-0.5% of	rated lout.			
5.Output voltage monitor		0~5V or 0~10	V, user select	able. Accuracy	: +/-0.5% of ra	ited Vout.					
6.Output current monitor (*14)		0~5V or 0~10	V, user select	able. Accuracy	: +/-0.5% of ra	ited lout.					
SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPU	T)										
1. Power supply OK #1 signal		Power supply	output moni	tor. Open coll	ector. Output	On: On. Outpu	ut Off: Off. Max	kimum Voltag	e: 30V, Maxim	um Sink Curre	nt: 10mA.
2. CV/CC signal		CV/CC Monito	or. Open colle	ctor. CC mode	: On. CV mode	: Off. Maximu	m Voltage: 30\	V, Maximum S	ink Current: 1	0mA.	
3. LOCAL/REMOTE Analog control		Enable/Disab	le analog pro	gramming coi	ntrol by electri	ical signal or c	lry contact. Re	mote: 0~0.6V	or short. Loc	al: 2~30V or op	en.
4. LOCAL/REMOTE Analog signal		analog progra	amming contr	ol monitor sig	nal. Open colle	ector. Remote:	On. Local: Off.	Maximum Vo	ltage: 30V, Ma	ximum Sink Cu	rrent: 10mA.
5. ENABLE/DISABLE signal							or short, 2~30				
6. INTERLOCK (ILC) control							: 0~0.6V or sho				
7. Programmed signals							mum sink curr				
8. TRIGGER IN / TRIGGER OUT signals										level input =	5V positive
-						num, Min del	ay between 2	2 pulses 1ms	i.		
9. DAISY_IN/SO control signal				5V/2~30V or dr	y contact.						
10. DAISY_OUT/PS_OK #2 signal		4~5V=UK, 0V	(SUUONM IMP	pedance)=Fail							
FUNCTIONS AND FEATURES											
1. Parallel operation							iction manual.				
2. Series operation				ts. Refer to ins							
3. Daisy chain							turn-on and t				
4. Constant power control			<u> </u>	1 33		<del>, , , , , , , , , , , , , , , , , , , </del>	the communi				
	_	Emulator cori	es resistance.		nge: 1~1000m	nΩ. Programm	ing via the cor	mmunication		ront panel.	
5. Output resistance control											
Output resistance control     Slew rate control		Programmab				rogramming r	ange: 0.0001~	999.99 V/mSe	c. or A/mSec.	Programming	via the
6. Slew rate control		Programmab communicati	on ports or th	e front panel.							
6. Slew rate control 7. Arbitrary waveforms		Programmab communicati	on ports or th	e front panel.						Programming orts or by the fi	
6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN,		Programmab communicati	on ports or th	e front panel.							
6. Slew rate control 7. Arbitrary waveforms  PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*16) Interfaces)	  V	Programmab communicati Profiles of up	on ports or the to 100 steps of	te front panel. can be stored	in 4 memory c	ells. Activatio	n by command	d via the comi	munication po	orts or by the fi	ont panel.
6. Slew rate control 7. Arbitrary waveforms  PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*16) Interfaces) 1. Vout programming accuracy (*15)		Programmab communicati Profiles of up 10 0.05% of rate	to 100 steps of the 20 doubtput voltage	an be stored in a	in 4 memory c	ells. Activatio	n by command	d via the comi	munication po	orts or by the fi	ont panel.
6. Slew rate control 7. Arbitrary waveforms  PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*16) Interfaces) 1. Vout programming accuracy (*15) 2. lout programming accuracy (*14)	 V	Programmab communicati Profiles of up 10 0.05% of rate 0.1% of actua	to 100 steps of 20 d output voltal loutput current	30 age ent+0.2% of ra	in 4 memory c	ells. Activatio	n by command	d via the comi	munication po	orts or by the fi	ont panel.
6. Slew rate control 7. Arbitrary waveforms  PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*16) Interfaces) 1. Vout programming accuracy (*15) 2. lout programming accuracy (*14) 3. Vout programming resolution	V	Programmab communicati Profiles of up  10  0.05% of rate 0.1% of actua 0.002% of rat	20 d output curred output voltaged output voltaged output voltaged output voltaged output vol	30 age ent+0.2% of raitage	in 4 memory c	ells. Activatio	n by command	d via the comi	munication po	orts or by the fi	ont panel.
6. Slew rate control 7. Arbitrary waveforms  PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*16) Interfaces) 1. Vout programming accuracy (*15) 2. lout programming accuracy (*14)	V	Programmab communicati Profiles of up  10  0.05% of rate 0.1% of actua 0.002% of rat 0.002% of rat	to 100 steps of 20 d output voltal loutput current	30 age ent+0.2% of ratage	in 4 memory c	ells. Activatio	n by command	d via the comi	munication po	orts or by the fi	ont panel.
6. Slew rate control 7. Arbitrary waveforms  PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*16) Interfaces) 1.Vout programming accuracy (*15) 2.lout programming accuracy (*14) 3.Vout programming resolution 4.lout programming resolution	V	Programmab communicati Profiles of up  10  0.05% of rate 0.1% of actua 0.002% of rat 0.002% of rate	20 d output voltal output voltal ed output curre ed output curre ed output curre	30 age ent+0.2% of raitage rrent age	in 4 memory c	ells. Activatio	n by command	d via the comi	nunication po	orts or by the fi	600
6. Slew rate control 7. Arbitrary waveforms  PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*16) Interfaces) 1. Vout programming accuracy (*15) 2. Lout programming accuracy (*14) 3. Vout programming resolution 4. Lout programming resolution 5. Vout readback accuracy	V	Programmab communicati Profiles of up  10  0.05% of rate 0.1% of actua 0.002% of rat 0.002% of rate	on ports or the to 100 steps of 20 d output voltal output curred output voltal output cursed output cursed output voltal	30 age ent+0.2% of raitage rrent age	in 4 memory c	ells. Activatio	n by command	d via the comi	nunication po	300	600
6. Slew rate control 7. Arbitrary waveforms  PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*16) Interfaces) 1. Vout programming accuracy (*15) 2. lout programming resolution 4. lout programming resolution 5. Vout readback accuracy 6. lout readback accuracy 6. lo	V	Programmab communicati Profiles of up  10  0.05% of rate 0.1% of actua 0.002% of rat 0.002% of rate 0.05% of rate	20 d output volta l output volta ed output volta ed output cure	30 age ent+0.2% of ratage erent	40 ted output cui	60	n by command	100	150  0.25% of rate	300  add output curro	600

### **G**ENESYS<sup>™</sup> 1.7kW SERIES SPECIFICATIONS

OUTPUT RATING		G	10-170	20-85						150-11.2		600-2.8
		V			30-56	40-42	60-28	80-21	100-17 100		300-5.6	600
1.Rated output voltage(*1) 2.Rated output current (*2)		A	10 170	20 85	30 56	40 42	60 28	80 21	17	150 11.2	300 5.6	600 2.8
3.Rated output current (*2)		W	1700	1700	1680	1680	1680	1680	1700	1680	1680	1680
5. Kated output power		VV	1700	1700	1000	1000	1000	1000	1700	1000	1000	1000
INPUT CHARACTERISTICS		V	10	20	30	40	60	80	100	150	300	600
1.Input voltage/freq. (*3)			85~265Vac, c	ontinuous, 47	~63Hz,Single	Phase						
2. Maximum Input current at 100	% load (100/200)	Α	20/10									
3.Power Factor (Typ)			0.99 @ 100Va	c 0.98 @ 200	Vac, rated out	put power.						
4.Efficiency at 100 Vac/200Vac, ra	ated output (*19)	%	86/88	87/89	87/89	87/89	87/89	87/89	88/90	88/90	88/90	88/90
5.Inrush current (*5)		Α	Less than 50A	A .								
CONSTANT VOLTAGE MODE		V	10	20	30	40	60	80	100	150	300	600
						40	60	00	100	150	300	000
1.Max. Line regulation (*6)			0.01% of rate		J .	-					_	
2.Max. Load regulation (*7)			0.01% of rate	d output volta	ige +2mV							
3.Ripple and noise (p-p, 20MHz)	(*8)	mV	50	50	50	60	60	75	75	75	120	500
4.Ripple r.m.s. 5Hz~1MHz (*8)		mV	6	6	6	7	7	10	12	8	20	100
5.Temperature coefficient		PPM/°C	50PPM/°C fro	m rated outp	ut voltage, fol	lowing 30 min	utes warm-up	).				
6.Temperature stability						lowing 30 min			a load & tem	n		
										ρ.		
7. Warm-up drift				1		-2mV over 30 r					_	_
8.Remote sense compensation/v	vire (*10)	V	2	2	5	5	5	5	5	5	5	5
9.Up-prog. Response time (*11)		mS	20	20	20	20	20	20	25	50	100	100
	Full load (*12)	mS	30	30	60	60	60	60	60	120	220	200
10.Down-prog.response time:	No load (*12)	mS	450	700	1000	1200	1500	1700	2600	2900	4600	4600
	1101000 ( 12)										urrent. Output	
11.Transient response time		mS	10~100%. I o	cal sense. Less	than 1mS. for	models up to	and including	100V, 2mS, fo	r models abo	ve 100V.	arrent. output	sec-point:
12.Start up delay		Sec	Less than 6 Se			ap to		,				
· · · · · · · · · · · · · · · · · · ·			ress riigii o 26				me tumi!	ad autrott				
13.Hold-up time		mS				161	ııs typical, rat	ed output pov	ver			
CONSTANT CURRENT MODE		V	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*6)				d output curre								
2.Max. Load regulation (*9)												
		_		d output curre						1		
3.Ripple r.m.s. @ rated voltage. B.	W 5Hz~1MHz. (*13)	mA	≤420	≤160	≤100	≤60	≤50	≤30	≤20	≤10	≤8	≤5
5.Temperature coefficient		PPM/°C	10V~100V	100PPM/°C fr	om rated outp	out current, fol	lowing 30 mir	nutes warm-up	).			
5. remperature coemcient		FFIVI/ C	150V~600V	70PPM/°C fro	m rated outpu	ut current, follo	owing 30 minu	utes warm-up.				
6.Temperature stability			0.01% of rate	d lout over 8h	rs. interval fol	lowing 30 min	utes warm-up	. Constant line	e, load & temp	perature.		
. ,			10\/100\/ mc	1.1.1								
					1 + 1 - 0.25% of r	ated output co	irrent over 30	minutes follow	wing nower o	n		
7. Warm-up drift						ated output co				on.		
7. Warm-up drift						ated output co output current				on.		
7. Warm-up drift  ANALOG PROGRAMMING AND N	MONITORING (ISOLATED		150V~600V: L							on.		
ANALOG PROGRAMMING AND N	MONITORING (ISOLATED		150V~600V: L	ess than +/-0.	.15% of rated o	output current	over 30 minu	tes following p	oower on.	on.		
ANALOG PROGRAMMING AND I		FROM T	150V~600V: L THE OUTPUT) 0~100%, 0~5	ess than +/-0.	.15% of rated o	output current	over 30 minu linearity: +/-0	tes following p .15% of rated \	oower on. /out.	on.		
ANALOG PROGRAMMING AND N 1.Vout voltage programming 2.lout voltage programming (*12		FROM T	150V~600V: L THE OUTPUT) 0~100%, 0~5 0~100%, 0~5	ess than +/-0. V or 0~10V, us V or 0~10V, us	15% of rated	Accuracy and	over 30 minu linearity: +/-0 linearity: +/-0	tes following p .15% of rated \ .4% of rated lo	oower on.	on.		
ANALOG PROGRAMMING AND I 1. Vout voltage programming 2. lout voltage programming (*14 3. Vout resistor programming	4)	FROM T	150V~600V: L THE OUTPUT) 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5	V or 0~10V, us V or 0~10V, us V or 0~10V, us /10Kohm full	er selectable. scale, user selectable.	Accuracy and Accuracy and Accuracy and	linearity: +/-0 linearity: +/-0 acy and linear	tes following p .15% of rated \ .4% of rated lo ity: +/-0.5% of	/out.	on.		
ANALOG PROGRAMMING AND N 1.Vout voltage programming 2.lout voltage programming (*12	4)	FROM T	150V~600V: L THE OUTPUT) 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5	V or 0~10V, us V or 0~10V, us V or 0~10V, us /10Kohm full	er selectable. scale, user selectable.	Accuracy and	linearity: +/-0 linearity: +/-0 acy and linear	tes following p .15% of rated \ .4% of rated lo ity: +/-0.5% of	/out.	on.		
ANALOG PROGRAMMING AND I 1. Vout voltage programming 2. lout voltage programming (*14 3. Vout resistor programming	4)	FROM T	150V~600V: L  HE OUTPUT)  0~100%, 0~5  0~100%, 0~5  0~100%, 0~5	V or 0~10V, us V or 0~10V, us V or 0~10V, us /10Kohm full	er selectable. er selectable. scale, user selectable.	Accuracy and Accuracy and Accuracy and	linearity: +/-0 linearity: +/-0 acy and linear acy and linear	tes following p .15% of rated \ .4% of rated lo ity: +/-0.5% of	/out.	on.		
ANALOG PROGRAMMING AND N 1.Vout voltage programming 2.lout voltage programming (*14 3.Vout resistor programming 4.lout resistor programming (*14 5.Output voltage monitor	4)	FROM T	150V~600V: L  HE OUTPUT)  0~100%, 0~5  0~100%, 0~5  0~100%, 0~5  0~5V or 0~10	V or 0~10V, us V or 0~10V, us V or 0~10V, us /10Kohm full : /10Kohm full : V, user selecta	er selectable. ser selectable. scale, user sele scale, user sele scale, user sele	Accuracy and Accuracy and ectable. Accuracy accuracy are ectable. Accuracy	linearity: +/-0 linearity: +/-0 acy and linear acy and linear ted Vout	tes following p .15% of rated \ .4% of rated lo ity: +/-0.5% of	/out.	on.		
ANALOG PROGRAMMING AND N 1.Vout voltage programming 2.lout voltage programming (*14 3.Vout resistor programming 4.lout resistor programming (*14 5.Output voltage monitor 6.Output current monitor (*14)	4)		150V~600V: L  HE OUTPUT)  0~100%, 0~5  0~100%, 0~5  0~100%, 0~5  0~5V or 0~10	V or 0~10V, us V or 0~10V, us V or 0~10V, us /10Kohm full : /10Kohm full : V, user selecta	er selectable. ser selectable. scale, user sele scale, user sele scale, user sele	Accuracy and Accuracy and Accuracy and ectable. Accura	linearity: +/-0 linearity: +/-0 acy and linear acy and linear ted Vout	tes following p .15% of rated \ .4% of rated lo ity: +/-0.5% of	/out.	on.		
ANALOG PROGRAMMING AND N 1.Vout voltage programming 2.lout voltage programming (*14 3.Vout resistor programming 4.lout resistor programming (*14 5.Output voltage monitor	4)		150V~600V: L  HE OUTPUT)  0~100%, 0~5  0~100%, 0~5  0~100%, 0~5  0~5V or 0~10	V or 0~10V, us V or 0~10V, us V or 0~10V, us /10Kohm full : /10Kohm full : V, user selecta	er selectable. ser selectable. scale, user sele scale, user sele scale, user sele	Accuracy and Accuracy and ectable. Accuracy accuracy are ectable. Accuracy	linearity: +/-0 linearity: +/-0 acy and linear acy and linear ted Vout	tes following p .15% of rated \ .4% of rated lo ity: +/-0.5% of	/out.	on.		
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ANALOG PROGRAMMING AND N  1.Vout voltage programming 2.lout voltage programming 2.lout voltage programming 4.lout resistor programming 4.lout resistor programming 4.lout resistor programming 6.Output voltage monitor 6.Output current monitor (*14)  SIGNALS AND CONTROLS (ISOL 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog signal 3. LOCAL/REMOTE Analog signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT sign 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation	ATED FROM THE OUTPU	D FROM 1	150V~600V: L  HE OUTPUT)  0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 0~5V or 0~10 0~5V or 0~10 0~5V or 0~10 to constant of the constant of t	V or 0~10V, us V or selecta V output moni or. Open colle lea nallog pro raile PS output I slie PS output I	er selectable. er selectable. er selectable. scale, user sele scale, user sele sable. Accuracy able. Accuracy tor. Open colli- ctor. CC mode gramming coi ol monitor sig oy electrical si able signals. N at voltage = 0 innimum. Tr, T iv/2~30V or dr pedance)=Fail units in Master	Accuracy and Accuracy and Accuracy and Accuracy and Accuracy and ectable. Accuracy are the Accuracy and the	over 30 minu linearity: +/-0 linearity: +/-0 linearity: +/-0 cy and linear ed Vout. d lout.%.  On: On. Outpu: : Off. Maximu cal signal or d ctor. Remote: ttact. 0~0.6V ttact. Remote age 25V, Maxim in high level in lingh level in li	tes following p. 1.15% of rated \\ 1.4% of rated \\ 1.4% of rated \\ 1.2 \\ 1.5% of \\ 1.4% of \\ 1.5% of \\ 1	Jouver on.  Jout.  Jout.  Jout.  Jout.  Jout.  Jout.  Journal of the state of the s	je: 30V, Maxim Sink Current: 1i or short. Loca Jitage: 30V, Ma: er selectable k 30V open. Silv unted by 27V ximum high l	OmA. ıl: 2~30V or opeximum Sink Cu ogic. / zener)	en. rrent: 10mA
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ANALOG PROGRAMMING AND N 1.Vout voltage programming 2.lout voltage programming 2.lout voltage programming 4.lout resistor programming 4.lout resistor programming 4.lout resistor programming 6.Output voltage monitor 6.Output current monitor (*14)  SIGNALS AND CONTROLS (ISOL 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT sign 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain	ATED FROM THE OUTPU		150V~600V: L  HE OUTPUT)  0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 0~5V or 0~10 0~5V or 0~10 CV/CC Monite Enable/Disab analog progra Enable/Disab Two open dra Maximum Ic edge trigge By electrical 4~5V=OK, 0V  Possible. Up t Possible. Up t Possible. Two Power suppli	V or 0~10V, us V or 0	er selectable. Ler selectable.	Accuracy and Accur	over 30 minu linearity: +/-0 linearity: +/-0 linearity: +/-0 cy and linear cy and linear ted Vout d lout.%.  On: On. Outpu. c Off. Maximu cal signal or d ctor. Remote: atact. 0~-0.6V ottor. Amote thact. Remote thact. Remote thact. Mind del	tes following p.  1.5% of rated \\ 1.4% of rated \\ 1.5% of \\ 1.4% of rated \\ 1.4% of rat	Joower on.  Jout.  Jout.  Jout.  Jout.  Jout.  Jout.  Journal of Lond	je: 30V, Maxim Sink Current: 11 f or short. Loca iltage: 30V, Ma: er selectable le 80V or open. hunted by 27V ximum high l	OmA.  II: 2~30V or opickimum Sink Cuogic.  I/ zener)  Ievel input =	en. rrent: 10mA
ANALOG PROGRAMMING AND INVOIT VOIT AND INVOIT VOIT AND INVOIT VOIT AND INVOIT	ATED FROM THE OUTPU	FROM 1	150V~600V: L  HE OUTPUT)  0~100%, 0~5  0~100%, 0~5  0~100%, 0~5  0~5V or 0~10  0~5V or 0~10  Power supply  CV/CC Monite  Enable/Disab  analog progra  Enable/Disab  Enable/Disab  Enable/Disab  Enable/Disab  Enable/Disab  Enable/Disab  Enable/Disab  Power supply  VW-CW-CW-CW-CW-CW-CW-CW-CW-CW-CW-CW-CW-CW	V or 0~10V, us V or 0	er selectable. Ler selectable.	Accuracy and Accuracy and Accuracy and Accuracy and Accuracy and ectable. Accuracy and example and ectable. Accuracy and example	over 30 minu linearity: +/-0 linearity: +/-0 linearity: +/-0 cy and linear cy and linear ted Vout d lout.%.  On: On. Outpu: coff. Maximu cal signal or d cctor. Remote: thact. 0~0.6V hash in high level i um, Min del  Refer to instru al. chronize their gramming via	tes following p.  15% of rated \\ .4% of rated \\ .4% of rated \  .6 to frated \  .7 to frated	Jower on.  Jout.  Jout.  Jout.  Jout.  Jout.  Jout.  Jout.  Jout.  Jour.  Jour.	je: 30V, Maxim Sink Current: 10 or short. Loca Itage: 30V, Mai er selo table le Sov or open. Shunted by 27V ximum high l So.	OmA.  II: 2~30V or opicimum Sink Cupgic.  / zener)  evel input =	en. rrent: 10mA
ANALOG PROGRAMMING AND INVOIT VOIT AND INVOIT VOIT AND INVOIT VOIT AND INVOIT	ATED FROM THE OUTPU		150V~600V: L  HE OUTPUT)  0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 0~5V or	V or 0~10V, us V user selects V output moni Or. Open collel ele analog pro amming contr use PS output I sin programm we level inpu; T: tw=10us m Voltage: 0~0.6: V of identical unit es can be con tput power to tes resistance.	ser selectable. ser selectable. ser selectable. scale, user sele sable. Accuracy able.	Accuracy and Accuracy and Accuracy and Accuracy and Accuracy and ectable. Accuracy acceptable. Accuracy a	over 30 minu linearity: +/-0 linearity: +/-0 acy and linear acy and linear acy and linear acy and linear ted Vout. d lout.%.  On: On. Output coff. Maximu cal signal or d citor. Remote: thact. 0~-0.6V. atact. Remote age 25V, Maxin in high level i num, Min del  Refer to instru al. chronize their gramming via Ω. Programm	tes following p.  15% of rated \\ .4% of rated \cdot \	Jouver on.  Jout.  Jout.  Jout.  Jout.  Jout.  Jout.  Journal of the state of the s	ie: 30V, Maxim Sink Current: 1i ' or short. Loca ditage: 30V, Ma er selectable le 30V or open. shunted by 27V kimum high l 5.	OmA.  II: 2~30V or opic  kimum Sink Cu  ogic.  / zener)  evel input =  nel.  ont panel.	en. rrent: 10mA
ANALOG PROGRAMMING AND I  1. Nout voltage programming 2. lout voltage programming 2. lout voltage programming 3. Nout resistor programming 4. lout resistor programming 4. lout resistor programming 6. Output voltage monitor 6. Output current monitor 7. SIGNALS AND CONTROLS (ISOL 11. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signal 10. DAISY_IN/SO control signal 10. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control	ATED FROM THE OUTPU	FROM 1	150V~600V: L  HE OUTPUT)  0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 4~5V=OK, 0V  Possible. Up t Possible. Two Power suppli Limits the ou Emulates seri	V or 0~10V, us V or selecta V output moni or. Open colle sle analog pro amming contr sle PS output I sl	er selectable. Ler selectable.	Accuracy and Accuracy and Accuracy and Accuracy and Accuracy and ectable. Accuracy actable. Accuracy a	over 30 minu linearity: +/-0 linearity: +/-0 acy and linear acy and linear acy and linear acy and linear ted Vout. d lout.%.  On: On. Output coff. Maximu cal signal or d citor. Remote: thact. 0~-0.6V. atact. Remote age 25V, Maxin in high level i num, Min del  Refer to instru al. chronize their gramming via Ω. Programm	tes following p.  15% of rated \\ .4% of rated \cdot \	Jouver on.  Jout.  Jout.  Jout.  Jout.  Jout.  Jout.  Journal of the state of the s	ie: 30V, Maxim Sink Current: 1i ' or short. Loca ditage: 30V, Ma er selectable le 30V or open. shunted by 27V kimum high l 5.	OmA.  II: 2~30V or opicimum Sink Cupgic.  / zener)  evel input =	en. rrent: 10mA
ANALOG PROGRAMMING AND INVOIT VOIT 1. Vout voltage programming (*14). 3. Vout resistor programming (*14). 3. Vout resistor programming (*14). 5. Output voltage monitor (*14). 5. Output voltage monitor (*14). 5. Output current monitor (*15). 6. Coutput current monitor (*16). 6. INTERLOCK (ILC) control 3. DAISY_IN/SO control signal 10. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 6. Slew rate control	ATED FROM THE OUTPU		150V~600V: L  HE OUTPUT)  0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 0~5V or 0	V or 0~10V, us V or 0	er selectable. Ler selectable.	Accuracy and Accuracy and Accuracy and Accuracy and Accuracy and Accuracy and Ectable. Accuracy and Ectapolic	over 30 minu linearity: +/-0 linearity: +/-0 linearity: +/-0 linearity: +/-0 locy and linear led Vout. d lout. On: On. Outpu. c Off. Maximu cal signal or d ctor. Remote: datact. Remote linearity:	tes following p.  1.15% of rated \\ 1.4% of rated \\ 1.5% of \\ 1.4 O.5% of \\ 1.5% of	Joower on.  Jout.  Jout.  Jout.  Jout.  Jout.  Jout.  Jout.  Jout.  Journal of Journal  Journal of Journal  Jou	je: 30V, Maxim Sink Current: 10 f or short. Loca Itage: 30V, Ma: er selectable le 30V or open. hunted by 27V ximum high le 5.	OmA.  II: 2~30V or opicimum Sink Cupgic.  I/ zener)  Ievel input =  nel.  ont panel.  Programming	en.  Frent: 10mA  FV positive
ANALOG PROGRAMMING AND INVOIT VOIT 1. Vout voltage programming (*14). 3. Vout resistor programming (*14). 3. Vout resistor programming (*14). 5. Output voltage monitor (*14). 5. Output voltage monitor (*14). 5. Output current monitor (*15). 6. Coutput current monitor (*16). 6. INTERLOCK (ILC) control 3. DAISY_IN/SO control signal 10. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 6. Slew rate control	ATED FROM THE OUTPU		150V~600V: L  HE OUTPUT)  0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 0~5V or 0	V or 0~10V, us V or 0	er selectable. Ler selectable.	Accuracy and Accur	over 30 minu linearity: +/-0 linearity: +/-0 linearity: +/-0 linearity: +/-0 locy and linear led Vout. d lout. On: On. Outpu. c Off. Maximu cal signal or d ctor. Remote: datact. Remote linearity:	tes following p.  1.15% of rated \\ 1.4% of rated \\ 1.5% of \\ 1.4 O.5% of \\ 1.5% of	Joower on.  Jout.  Jout.  Jout.  Jout.  Jout.  Jout.  Jout.  Jout.  Journal of Journal  Journal of Journal  Jou	je: 30V, Maxim Sink Current: 10 f or short. Loca Itage: 30V, Ma: er selectable le 30V or open. hunted by 27V ximum high loca sinum high loca bor the front par ports or the free. or A/mSec.	OmA.  II: 2~30V or opic  kimum Sink Cu  ogic.  / zener)  evel input =  nel.  ont panel.	en.  Frent: 10mA  FV positive
ANALOG PROGRAMMING AND I  1. Nout voltage programming 2. Lout voltage programming 2. Lout voltage programming 3. Your resistor programming 4. Lout resistor programming 4. Lout resistor programming 5. Output voltage monitor 6. Output current monitor (*14)  SIGNALS AND CONTROLS (ISOL 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signal 10. DAISY_IN/SO control signal 10. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal  FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms	ATED FROM THE OUTPU		150V~600V: L  HE OUTPUT)  0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 0~5V or 0	V or 0~10V, us V or 0	er selectable. Ler selectable.	Accuracy and Accur	over 30 minu linearity: +/-0 linearity: +/-0 linearity: +/-0 linearity: +/-0 locy and linear led Vout. d lout. On: On. Outpu. c Off. Maximu cal signal or d ctor. Remote: datact. Remote linearity:	tes following p.  1.15% of rated \\ 1.4% of rated \\ 1.5% of \\ 1.4 O.5% of \\ 1.5% of	Joower on.  Jout.  Jout.  Jout.  Jout.  Jout.  Jout.  Jout.  Jout.  Journal of Journal  Journal of Journal  Jou	je: 30V, Maxim Sink Current: 10 f or short. Loca Itage: 30V, Ma: er selectable le 30V or open. hunted by 27V ximum high loca sinum high loca bor the front par ports or the free. or A/mSec.	OmA.  II: 2~30V or opicimum Sink Cupgic.  I/ zener)  Ievel input =  nel.  ont panel.  Programming	en.  Frent: 10mA  FV positive
ANALOG PROGRAMMING AND INVOLVE VOITAGE PROGRAMMING AND READBR SE232/485, Optional IEEE (*12	ACK (USB, LAN, 8) Interfaces)		150V~600V: L  HE OUTPUT)  0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 0~5V or 0	V or 0~10V, us V or 0	er selectable. er selectable. er selectable. scale, user sele scale, user	Accuracy and Accuracy and Accuracy and Accuracy and Accuracy and ectable. Accuracy a	over 30 minu linearity: +/-0 linearity: +/-0 cy and linear acy and linear ted Vout. d lout.%.  On: On. Outpu : Off. Maximu cal signal or d :cor. Remote tact. 0 ~ 0.6 V tatact. Remote age 25V, Maxim in high level i luum, Min del  Refer to instru al. chronize their gramming via Ω. Programming r orgamming r ells. Activation	tes following p.  1.5% of rated \\ 1.4%	Jouver on.  Jout.  Jout.  Jout.  Jout.  Jout.  Jout.  Jout.  Journal of Maximum S  Journ	je: 30V, Maxim Sink Current: 10 Or short. Loca Jitage: 30V, Ma. er selectable le 30V or open. Junted by 27V ximum high l s.	OmA.  Il: 2~30V or op- kimum Sink Cu orgic.  / zener)  level input =  nel.  ont panel.  Programming  urts or by the fr	en.  Frent: 10mA  5V positive  via the  ont panel.
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#### GENESYS™ 1kW/1.7kW SERIES SPECIFICATIONS

PROTECTIVE FUNCTIONS		V	10	20	30	40	60	80	100	150	300	600
1.Foldback protection			Output shut-	down when pole. Reset by A	ower supply c	hanges mode le in autostart	from CV or P mode, by Po	ower Limit to wer Switch, by	CC mode or fr OUTPUT but	om CC or Pow ton, by rear pa	er Limit to CV anel or by com	mode. munication.
2.Over-voltage protection (OVP)			Output shut-	down. Reset k	y AC input red	ycle in autosta	art mode, by	OUTPUT butt	on, by rear pai	nel or by com	munication.	
3.Over -voltage programming range	<u> </u>	V	0.5~12	1~24	2~36	2~44.1	5~66.15	5~88.2	5~110.25	5~165.37	5~330.75	5~661.5
4. Over-voltage programming accur	асу			d output volta								
5.Output under voltage limit (UVL)						t. Does not app		programming	g. Preset by fro	nt panel or co	mmunication	port.
6.Over temperature protection						y autostart mo	ide.					
7. Output under voltage limit (UVL)					ut below limit							
8. Output under voltage protection	(UVP)		Prevents adjumode, by Pov	istment of Vo ver Switch, by	ut below limit. OUTPUT butt	P.S output tur on, by rear par	rns Off during nel or by com	g under voltag imunication.	ge condition. F	Reset by AC in	put recycle in	autostart
FRONT PANEL								,				
1.Control functions			Multiple opti	ons with 2 En	coders							
			Vout/lout/Po	wer Limit mai	nual adjust							
			OVP/UVL/UV	P manual adju	ıst							
			Protection Fu	nctions - OVF	, UVL,UVP, Fol	dback, OCL, EN	NA, ILC					
			Communicat	ion Functions	- Selection of	LAN,IEEE,RS23	32,RS485,USB	or Optional o	ommunicatio	n interface.		
			Output ON/O									
						Baud Rate, Ad						
						tage/resistive			10K programn	ning		
						Voltage/Curre		g 5V/10V.				
2.Display						utput voltage						
25 (2) 12 (1)						put current +/		NI CONFICUE	ATIONI CVCTE	4 CEOUENICE		
3.Front Panel Buttons Indications						MMUNICATION						
4. Front Panel Display Indications			Voltage, Curr (communicat	ent, Power, C\ ion), RS/USB/	/, CC, CP, Exter LAN/IEEE com	nal Voltage, Ex munication, Tr	kternal Curre rigger, Load/S	nt, Address, L Store Cell.	FP, Autostart, S	Safetstart, Fol	dback V/I, Ren	note
ENVIRONMENTAL CONDITIONS												
1.Operating temperature			0~50°C, 100%	load.								
2.Storage temperature			-30~85°C									
3.Operating humidity		%	20~90% RH (i	no condensat	ion)							
4.Storage humidity		%		no condensati								
5.Altitude						ent derating 29	14/100m or To	dorating 1°C/	100m abovo 2	000m Non or	orating: 4000	0ft (12000m)
			Operating. 10	100011 (300011	i), output curre	ent derating 25	70/ TOUTH OF TA	derating i C/	100111 above 2	ooonii. Non o	beratility. 4000	011 (12000111).
MECHANICAL												
1.Cooling			Forced air co	oling by interi	nal fans. Air flo	w direction: fr	om Front pai	nel to power s	upply rear			
2.Weight		kg	Less than 5kg									
3.Dimensions (WxHxD)		mm				sbars and bu usbars and b			Outline draw	ing).		
4.Vibration			MIL-810G, me	thod 514.6, P	rocedure I, tes	t condition An	nex C - 2.1.3.	1				
5.Shock			Less than 200	, half sine, 11	mSec. Unit is u	inpacked.						
SAFETY/EMC												
	afety G1kW/G1.7kW		UL61010-1, C	SA22.2 No.610	)10-1, IEC61010	)-1, EN61010-1.						
· · ·	1kW/1.7kW		Vout≤50V Mo	dels: Output,	J1, J2, J3, J4, J	5, J6, J7, J8 (ser se) are hazard	nse) & J9 (com	nmunication of J4, J5, J6, J7 8	ptions) are No	on Hazardous cation option	s) are Non Haz	ardous.
1.2 Withstand voltage G	1kW/1.7kW		Vout≤50V M Input - Grout 60V≤Vout≤1 Output & J8 Output & J8 100V <vout≤ Output &amp; J8</vout≤ 	odels: Input nd: 2835VDC 00V Models: (sense) - J1, (sense) - Gro 600V Models (sense) - J1, (sense) - Gro	- Output & J& C 1min. Input - Outp J2, J3, J4, J5 ound: 1500VE :: Input - Outp J2, J3, J4, J5 ound: 2500VE	3 (sense), J1, J ut & J8 (sense 5, J6, J7 & J9 DC 1min, Inpu put & J8 (sens 5, J6, J7 & J9	J2, J3, J4, J e), J1, J2, J3 (communica it - Ground: 2 se), J1, J2, J3	5, J6, J7 & J 1, J4, J5, J6, ation options 2835VDC 1m 3, J4, J5, J6,	9 (communica J7 & J9 (com ): 850VDC 1m iin. J7 and J9 (co	ation options munication o nin.	): 4242VDC 1 ptions): 4242	min, VDC 1min,
					,							
1.3 Insulation resistance			100Mohm at	25°C, 70%RH.	Output to Gro	ound 500VDC						
1.3 Insulation resistance 2.Conducted emmision					Output to Gro	ound 500VDC nnex H table F	H.1 , FCC Part	15-A, VCCI-A .				
		_	IEC/EN61204-	3 Industrial e	Output to Gro							

Unless otherwise noted, specifications are warranted over the ambient temperature range of 0° to 50°C

NOTES:

\*1: Minimum voltage is guaranteed to maximum 0.1% of rated output voltage.

\*2: Minimum current is guaranteed to maximum 0.2% of rated output current.

\*3: For cases where conformance to various safety standards (UL, IEC, etc...) is required, to be described as 100-240Vac (50/60Hz).

\*4: Signal and control ports interface cables length: Less than 3m, DC output power port cables length: Less than 30m.

\*5: Not including EMI filter inrush current, less than 0.2mSec.

\*6: 85~132Vac or 170-265Vac. Constant load.

\*7: From No-Load to Full-Load, constant input voltage.

\*8: For 10V-150V models: Measured with JEITA RC-9131C (1:1) probe. For 200~600V models: Measured with 100:1 probe.

\*9: For load voltage change, equal to the unit voltage rating, constant input voltage.

\*10: The maximum voltage on the power supply terminals must not exceed the rated voltage.

\*11: From 10% to 90% of Rated Output Voltage, with rated, resistive load.

\*12: From 90% to 10% of Rated Output Voltage, with rated, resistive load.

\*13: For 10V model, the ripple is measured at 20~100% of rated output voltage and rated output current. For other models, the ripple is measured at 10~100% of rated output voltage and rated output current. For other models, the ripple is measured at 10~100% of rated output voltage and rated output current. For other models, the ripple is measured at 10~100% of rated output voltage and rated output current. For other models, the ripple is measured at 10~100% of rated output voltage and rated output current. For other models, the ripple is measured at 10~100% of rated output voltage and rated output current. For other models, the ripple is measured at 10~100% of rated output voltage and rated output current. For other models, the ripple is measured at 10~100% of rated output voltage and rated output current. For other models, the ripple is measured at 10~100% of rated output voltage and rated output current.

### **G**ENESYS<sup>™</sup> 2.7kW SERIES SPECIFICATIONS

OUTPUT RATING		C	10.265	20-135	20.00	40-68	60-45	80-34	100.27	150 10	300-9	600-4.5
1.Rated output voltage(*1)		G V	10-265 10	20-135	30-90 30	40-68	60-45	80-34	100-27 100	150-18 150	300-9	600-4.5
2.Rated output voitage("1)		A	265	135	90	68	45	34	27	18	9	4.5
3.Rated output current (2)		W	2650	2700	2700	2720	2700	2720	2700	2700	2700	2700
INPUT CHARACTERISTICS		V	10 2 Phase 200	20 / models: 170	30	40	60	80	100	150	300	600
					)~265Vac, 47~। 2~460Vac, 47~			/ac)		-	-	
1.Input voltage/freq. 3 phase, 3 w	rire + Ground (*4)				2~528Vac, 47~				ac)			
					~265Vac, 47~6							
	3-Phase, 200V models:		10A @ 200Va									
2. Maximum Input current at	3-Phase, 400V models:		5.5A @ 380Va									
100% load	3-Phase, 480V models:		5.5A @ 380Va									
	1-Phase, 200V models:		16.5A @ 200V		2011			-				
3.Power Factor (Typ)					30Vac, rated ou c, rated output							
4.Efficiency (Typ) (*5) (*22)		%	88	89	89.5	90	90	90.5	90.5	90.5	90.5	90.5
5.Inrush current (*6)		A	Less than 50/		03.5	, ,,	,,,	70.5	70.5	70.5	70.5	70.5
CONSTANT VOLTAGE MODE		٧	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*7)			0.01% of rate			40	00	00	100	130	300	000
2.Max. Load regulation (*8)			0.01% of rate									
3.Ripple and noise (p-p, 20MHz)	(*Q)	mV	75	75	75	75	80	80	100	120	200	480
4.Ripple r.m.s. 5Hz~1MHz (*9)	( )	mV	8	10	10	12	15	15	15	20	60	100
5.Temperature coefficient					out voltage, fol				15	20	00	100
6.Temperature stability					hrs interval fo				ne. load & ter	np.		
7. Warm-up drift					utput voltage							
8.Remote sense compensation/w	vire (*10)	٧	2	2	5	5	5	5	5	5	5	5
9.Up-prog. Response time (*11)	,	mS	30	30	30	30	50	50	50	50	50	100
	Full load (*11)	mS	50	50	80	80	80	100	100	100	100	200
10.Down-prog.response time:	No load (*12)	mS	450	600	800	900	1100	1300	2100	2000	3200	3100
11.Transient response time		mS	Time for outp	out voltage to	recover withi	n 0.5% of its ra	ated output fo	or a load chan	ge 10~90% o	frated output		
			10~100%, Lo	cal sense. Les	s than 1mS, fo	r models up to	and includin	ig 100V. 2mS, f	or models ab	ove 100V.		
12.Start up delay		Sec	Less than 6 Se	ec								
CONSTANT CURRENT MODE		V	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*7)			0.05% of rate	d output curr	ent.							'
2.Max. Load regulation (*13)			0.08% of rate									
3.Ripple r.m.s. @ rated voltage. 3-	Phase (*14)	mA	≤800	≤450	≤300	≤150	≤100	≤70	≤45	≤30	≤12	≤5
4.Ripple r.m.s. @ rated voltage. 1-	Phase (*14)	mA	≤1200	≤600	≤300	≤300	≤200	≤100	≤60	≤40	≤12	≤8
5.Temperature coefficient		PPM/°C	10V~100V	100PPM/°C f	rom rated out	put current, fo	llowing 30 m	inutes warm-u	ıp.			
3. Temperature coefficient		PPIVI/ C	150V~600V	70PPM/°C fro	om rated outp	ut current, fol	lowing 30 mir	nutes warm-up	).			
6.Temperature stability					nrs. interval fol					•		
7. Warm-up drift			10V~100V mo	odel: Less tha	n +/-0.25% of	rated output o	urrent over 3	0 minutes follo	owing power	on.		
7. Waini-up dint			150V~600V: L	ess than +/-0	).15% of rated	output curren	t over 30 min	utes following	power on.			
ANALOG PROGRAMMING AND N	MONITORING (ISOLATED	FROM	THE OUTPUT)									
1.Vout voltage programming			1	V or 0~10V, u	ser selectable.	. Accuracy and	l linearity: +/-	0.15% of rated	Vout.			
2.lout voltage programming (*15	5)				ser selectable.							
3.Vout resistor programming					scale, user sel							
			0~100%, 0~5	/10Kohm full	scale, user sel		a eu and linea	rity: +/-0.5% c				
4.lout resistor programming (*15	j)					ectable. Accui	acy and imea		of rated lout.			
4.lout resistor programming (*15 5.Output voltage monitor	i)				able. Accuracy		acy and intea	incy. 17 0.570 0	frated lout.			
	5)		0~5V or 0~10	V, user select		y: +/-0.5%.	acy and linea	inty: 17 0.570 0	frated lout.			
5.Output voltage monitor 6.Output current monitor (*15)			0~5V or 0~10	V, user select	able. Accuracy	y: +/-0.5%.	acy and intea	11ty: 17 0.570 0	of rated lout.			
5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOLA		  T)	0~5V or 0~10 0~5V or 0~10	V, user select V, user select	able. Accuracy able. Accuracy	y: +/-0.5%. y: +/-0.5%.				nge 20V Mayin	mum Sink Cur	rent: 10mA
5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOL/ 1. Power supply OK #1 signal		  T)	0~5V or 0~10 0~5V or 0~10 Power supply	IV, user select IV, user select IV output mon	able. Accuracy able. Accuracy itor. Open coll	y: +/-0.5%. y: +/-0.5%. lector. Output	On: On. Outp	out Off: Off. Ma	aximum Volta	ige: 30V, Maxir		rent: 10mA.
5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOLA 1. Power supply OK #1 signal 2. CV/CC signal	ATED FROM THE OUTPU	 T)	0~5V or 0~10 0~5V or 0~10 Power supply CV/CC Monite	V, user select V, user select v output mon or. Open colle	able. Accuracy able. Accuracy itor. Open coll ector. CC mode	y: +/-0.5%. y: +/-0.5%. lector. Output e: On. CV mod	On: On. Outp	out Off: Off. Ma um Voltage: 30	aximum Volta DV, Maximum	Sink Current:	10mA.	
5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOL/ 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro	ATED FROM THE OUTPU	  T)	0~5V or 0~10 0~5V or 0~10 Power supply CV/CC Monite Enable/Disab	V, user select V, user select V output mon or. Open colle ole analog pro	able. Accuracy able. Accuracy itor. Open coll ector. CC mode ogramming co	y: +/-0.5%. y: +/-0.5%. lector. Output e: On. CV mod- ntrol by electi	On: On. Outp e: Off. Maximi rical signal or	ut Off: Off. Ma um Voltage: 30 dry contact. R	aximum Volta DV, Maximum emote: 0~0.6	Sink Current: 5V or short. Loc	10mA. cal: 2~30V or c	pen.
5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOL/ 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro 4. LOCAL/REMOTE Analog signal	ATED FROM THE OUTPU	 T) 	0~5V or 0~10 0~5V or 0~10  Power supply CV/CC Monito Enable/Disab analog progra	N, user select N, user select of output mon or. Open collected analog pro amming contributes	able. Accuracy able. Accuracy itor. Open coll ector. CC mode ogramming co rol monitor sig	y: +/-0.5%. y: +/-0.5%. lector. Output e: On. CV mod ntrol by electronal. Open colle	On: On. Outpe: Off. Maximorical signal or ector. Remote:	ut Off: Off. Ma um Voltage: 30 dry contact. R On. Local: Off.	aximum Volta DV, Maximum emote: 0~0.6 . Maximum Vo	Sink Current: 5V or short. Loo bltage: 30V, Ma	10mA. cal: 2~30V or c ximum Sink Cu	pen.
5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOL/ 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal	ATED FROM THE OUTPU	 T) 	0~5V or 0~10 0~5V or 0~10  Power supply CV/CC Monite Enable/Disab analog progra Enable/Disab	V, user select V, user select V output mon or. Open colle olle analog pro amming controlle PS output	able. Accuracy able. Accuracy itor. Open coll ector. CC mode ogramming co rol monitor sig by electrical si	y: +/-0.5%. y: +/-0.5%. lector. Output e: On. CV mod ntrol by electi nal. Open colle	On: On. Outpe: Off. Maximirical signal or ector. Remote: ontact. 0~0.6V	out Off: Off. Ma um Voltage: 30 dry contact. R On. Local: Off. or short, 2~30	aximum Volta DV, Maximum emote: 0~0.6 Maximum Vo DV or open. U	Sink Current: SV or short. Loo oltage: 30V, Ma lser selectable	10mA. cal: 2~30V or c ximum Sink Cu	pen.
5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOL/ 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro 4. LOCAL/REMOTE Analog signal	ATED FROM THE OUTPU	 T)  	0~5V or 0~1C 0~5V or 0~1C Power supply CV/CC Monite Enable/Disab analog progra Enable/Disab Enable/Disab	IV, user select IV, user select IV output mon IV output mon IV open colle IV output mon IV output	able. Accuracy able. Accuracy itor. Open coll ector. CC mode ogramming co rol monitor sig by electrical si by electrical si	y: +/-0.5%. y: +/-0.5%. lector. Output e: On. CV mod ntrol by electinal. Open colle ignal or dry co	On: On. Outpe: Off. Maximi rical signal or ector. Remote: intact. 0~0.6V	out Off: Off. Ma um Voltage: 30 dry contact. R On. Local: Off. or short, 2~30 e: 0~0.6V or sh	aximum Volta DV, Maximum emote: 0~0.6 . Maximum Vo DV or open. U nort. Local: 2-	Sink Current: by or short. Loo bltage: 30V, Ma ser selectable ~30V or open.	10mA. cal: 2~30V or c ximum Sink Cu logic.	pen.
5.Output voltage monitor 6.Output current monitor (*15)  SIGNALS AND CONTROLS (ISOL/ 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals	ATED FROM THE OUTPU	T)	0~5V or 0~1C 0~5V or 0~1C 0~5V or 0~1C Power supply CV/CC Monitt Enable/Disab analog progra Enable/Disab Two open dra Maximum le	IV, user select IV, user select IV output mon or. Open colle ole analog pro amming contr ole PS output ole PS output ain programm ow level inpi	able. Accuracy able.	y: +/-0.5%. y: +/-0.5%. lector. Output e: On. CV modentrol by electinal. Open colle gignal or dry co gignal or dry co Maximum volt 0.8V,Minimu	On: On. Outpe: Off. Maximurical signal or ector. Remote: intact. 0~0.6V intact. Remotetage 25V, Max m high level	out Off: Off. Ma um Voltage: 3( dry contact. R On. Local: Off. ' or short, 2~3( e: 0~0.6V or sh imum sink cur	aximum Volta  DV, Maximum emote: 0~0.6  Maximum Vo DV or open. U nort. Local: 2- rrent 100mA	is Sink Current: SV or short. Loo oltage: 30V, Ma Iser selectable ~30V or open. (Shunted by 27 aximum high	10mA. cal: 2~30V or c ximum Sink Cu logic. 7V zener)	pen.
5.Output voltage monitor 6.Output current monitor (*15)  SIGNALS AND CONTROLS (ISOL/ 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT sign	ATED FROM THE OUTPU	T)	0~5V or 0~10 0~5V or 0~10 0~5V or 0~10 Power supply CV/CC Monite Enable/Disatanalog progr. Enable/Disate Enable/Disate Two open dra Maximum le edge trigge	W, user select W, user select V output mon or. Open colle ole analog pro amming control ole PS output ole PS output ole programm ow level inpr or: tw=10us r	able. Accuracy able. Accuracy able. Accuracy itor. Open coll ector. CC mode ogramming co rol monitor sig by electrical si by electrical si ut voltage =  minimum. Tr,	y: +/-0.5%. y: +/-0.5%. lector. Output e: On. CV mod ntrol by electrial. Open colle ignal or dry co- ignal o	On: On. Outpe: Off. Maximurical signal or ector. Remote: intact. 0~0.6V intact. Remotetage 25V, Max m high level	out Off: Off. Ma um Voltage: 3( dry contact. R On. Local: Off. ' or short, 2~3( e: 0~0.6V or sh imum sink cur	aximum Volta  DV, Maximum emote: 0~0.6  Maximum Vo DV or open. U nort. Local: 2- rrent 100mA	is Sink Current: SV or short. Loodlage: 30V, Malser selectable -30V or open. (Shunted by 27 aximum high	10mA. cal: 2~30V or c ximum Sink Cu logic. 7V zener)	pen. ırrent: 10mA.
5.Output voltage monitor 6.Output current monitor (*15)  SIGNALS AND CONTROLS (ISOL/ 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT sign 9. DAISY_IN/SO control signal	ATED FROM THE OUTPU	T)	Power supply CV/CC Monite Enable/Disat analog progra Enable/Disat Two open dra Maximum Ik edge trigge By electrical	W, user select W, user select V output mon Or. Open colle Sele analog pro Camming control Sele PS output Sele PS output Selin programm Ow level input T: tw=10us r Voltage: 0~0.	able. Accuracy able.	y: +/-0.5%. y: +/-0.5%. lector. Output e: On. CV mod- ntrol by electin nal. Open colle ignal or dry co- ignal or dry co- Maximum volt 0.8V,Minimu tf=1us Maxir ry contact.	On: On. Outpe: Off. Maximurical signal or ector. Remote: intact. 0~0.6V intact. Remotetage 25V, Max m high level	out Off: Off. Ma um Voltage: 3( dry contact. R On. Local: Off. ' or short, 2~3( e: 0~0.6V or sh imum sink cur	aximum Volta  DV, Maximum emote: 0~0.6  Maximum Vo DV or open. U nort. Local: 2- rrent 100mA	is Sink Current: SV or short. Loodlage: 30V, Malser selectable -30V or open. (Shunted by 27 aximum high	10mA. cal: 2~30V or c ximum Sink Cu logic. 7V zener)	pen. Irrent: 10mA.
5.Output voltage monitor 6.Output current monitor (*15)  SIGNALS AND CONTROLS (ISOL/ 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT sign	ATED FROM THE OUTPU	T)	Power supply CV/CC Monite Enable/Disat analog progra Enable/Disat Two open dra Maximum Ik edge trigge By electrical	W, user select W, user select V output mon Or. Open colle Sele analog pro Camming control Sele PS output Sele PS output Selin programm Ow level input T: tw=10us r Voltage: 0~0.	able. Accuracy able. Accuracy able. Accuracy itor. Open coll ector. CC mode ogramming co rol monitor sig by electrical si by electrical si ut voltage =  minimum. Tr,	y: +/-0.5%. y: +/-0.5%. lector. Output e: On. CV mod- ntrol by electin nal. Open colle ignal or dry co- ignal or dry co- Maximum volt 0.8V,Minimu tf=1us Maxir ry contact.	On: On. Outpe: Off. Maximurical signal or ector. Remote: intact. 0~0.6V intact. Remotetage 25V, Max m high level	out Off: Off. Ma um Voltage: 3( dry contact. R On. Local: Off. ' or short, 2~3( e: 0~0.6V or sh imum sink cur	aximum Volta  DV, Maximum emote: 0~0.6  Maximum Vo DV or open. U nort. Local: 2- rrent 100mA	is Sink Current: SV or short. Loodlage: 30V, Malser selectable -30V or open. (Shunted by 27 aximum high	10mA. cal: 2~30V or c ximum Sink Cu logic. 7V zener)	pen. Irrent: 10mA.
5.Output voltage monitor 6.Output current monitor (*15)  SIGNALS AND CONTROLS (ISOL/ 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT sign 9. DAISY_IN/SO control signal	ATED FROM THE OUTPU	T)	Power supply CV/CC Monite Enable/Disat analog progra Enable/Disat Two open dra Maximum Ik edge trigge By electrical	W, user select W, user select V output mon Or. Open colle Sele analog pro Camming control Sele PS output Sele PS output Selin programm Ow level input T: tw=10us r Voltage: 0~0.	able. Accuracy able.	y: +/-0.5%. y: +/-0.5%. lector. Output e: On. CV mod- ntrol by electin nal. Open colle ignal or dry co- ignal or dry co- Maximum volt 0.8V,Minimu tf=1us Maxir ry contact.	On: On. Outpe: Off. Maximurical signal or ector. Remote: intact. 0~0.6V intact. Remotetage 25V, Max m high level	out Off: Off. Ma um Voltage: 3( dry contact. R On. Local: Off. ' or short, 2~3( e: 0~0.6V or sh imum sink cur	aximum Volta  DV, Maximum emote: 0~0.6  Maximum Vo DV or open. U nort. Local: 2- rrent 100mA	is Sink Current: SV or short. Loodlage: 30V, Malser selectable -30V or open. (Shunted by 27 aximum high	10mA. cal: 2~30V or c ximum Sink Cu logic. 7V zener)	pen. Irrent: 10mA.
5.Output voltage monitor 6.Output current monitor (*15)  SIGNALS AND CONTROLS (ISOL/ 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT sign 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal	ATED FROM THE OUTPU	T)	0~5V or 0~10 0~5V or 0~10 0~5V or 0~10 Power supply CV/CC Monitut Enable/Disab analog progre Enable/Disab Two open dra Maximum le edge trigge By electrical v 4~5V=OK, 0V	W, user select W, user select W, user select W, output mon or. Open colleil ele analog pre amming control ele PS output elle P	able. Accuracy able.	y: +/-0.5%. y: +/-0.5%. lector. Output e: On. CV mod ntrol by electrial. Open colle ignal or dry co Maximum volt 0. 8V, Minimu Tf=1us Maxir ry contact.	On: On. Outpe e: Off. Maximrical signal or ector. Remotes ntact. 0~0.6V intact. Remot age 25V, Max m high level num, Min de	out Off: Off. Ma um Voltage: 3( dry contact. R On. Local: Off. 'or short, 2~3( e: 0~0.6V or sh imum sink cur linput voltag lay between	aximum Volta JV, Maximum emote: 0~0.6 .Maximum VC DV or open. U nort. Local: 2- rrent 100mA Je = 2.5V, M. 2 pulses 1n	is Sink Current: SV or short. Loodlage: 30V, Malser selectable -30V or open. (Shunted by 27 aximum high	10mA. cal: 2~30V or c ximum Sink Cu logic. 7V zener)	pen. Irrent: 10mA.
5.Output voltage monitor 6.Output current monitor (*15)  SIGNALS AND CONTROLS (ISOL/ 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT sign 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES	ATED FROM THE OUTPU	T)	0~5V or 0~10 0~5V or 0~10 0~5V or 0~10 Power supply CV/CC Monitt Enable/Disab analog progr. Enable/Disab Two open dra Maximum le edge trigge By electrical' 4~5V=OK, 0v	IV, user selectivity, user selectivity, user selectivity output monor. Open collede analog premaming controlede So output bie PS output bie PS output bie PS output bie PS output in programm ow level inpremamory (5000hm im	able. Accuracy able. Accuracy able. Accuracy itor. Open coll ector. CC mode agramming co rol monitor sig by electrical si nable signals. I ut voltage = minimum. Tr, 60/2-300 or d pedance)=Fail	y: +/-0.5%. y: +/-0.5%. lector. Output e: On. CV mod ntrol by electinal. Open colle ignal or dry co ignal or dry co ignal or dry co Maximum volt 0.8V, Minimu If=1us Maxir ry contact.	On: On. Outpute: Off. Maximirical signal or ector. Remote: ntact. 0-0.6v intact. 25V, Max m high level num, Min de	out Off: Off. Ma um Voltage: 3( dry contact. R On. Local: Off. 'or short, 2~3( e: 0~0.6V or sh imum sink cur linput voltag lay between	aximum Volta JV, Maximum emote: 0~0.6 .Maximum VC DV or open. U nort. Local: 2- rrent 100mA Je = 2.5V, M. 2 pulses 1n	is Sink Current: SV or short. Loodlage: 30V, Malser selectable -30V or open. (Shunted by 27 aximum high	10mA. cal: 2~30V or c ximum Sink Cu logic. 7V zener)	pen. Irrent: 10mA.
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5.Output voltage monitor 6.Output current monitor (*15)  SIGNALS AND CONTROLS (ISOL/ 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT sign 9. DAISY_IN/SO control signal 10. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal  FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation	ATED FROM THE OUTPU	T)	0~5V or 0~10 0~5V or 0~10 0~5V or 0~10 0~5V or 0~10 Power supply CV/CC Monitt Enable/Disat analog progra Enable/Disat Two open dra Maximum le edge trigge By electrical v 4~5V=OK, 0V Possible. Up t Possible. Two Power suppli	IV, user select IV, output mon IV, output mon IV, output mon IV, output IV, out	able. Accuracy able. Accuracy able. Accuracy itor. Open coll cctor. CC mode ogramming co rol monitor sig by electrical si by electrical si by electrical si ut voltage = minimum. Tr, 6V/2–30V or d pedance)=Fail units in Maste its. Refer to ins unected in Dais	y: +/-0.5%. y: +/-0.5%. lector. Output e: On. CV mod ntrol by electinal. Open colle ignal or dry co ignal or d	On: On. Output e: Off. Maxim rical signal or ector. Remote: ntact. 0~0.6V ntact. Remot aage 25V, Max m high level num, Min de	out Off: Off. Ma Jum Voltage: 3( dry contact. R On. Local: Off. or short, 2~3( e: 0~0.6V or sh in my sink cur linput voltagelay between uction manua	aximum Volta DV, Maximum emote: 0~0.6 Maximum Vc DV or open. U orrt. Local: 2- rent 100mA pe = 2.5V, M 2 pulses 1n l. turn-off.	is Sink Current: SV or short. Loodlage: 30V, Malser selectable -30V or open. (Shunted by 27 aximum high	10mA. cal: 2~30V or c ximum Sink Cu logic.  7V zener)	pen. Irrent: 10mA.
5.Output voltage monitor 6.Output current monitor (*15)  SIGNALS AND CONTROLS (ISOL/ 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signal 10. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal  FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain	ATED FROM THE OUTPU	T)	0~5V or 0~10 0~5V or 0~10 0~5V or 0~10 Power supply CV/CC Monitt Enable/Disat analog progr. Enable/Disat Two open dra Maximum le edge trigge By electrical 4~5V=OK, 0V Possible. Up p Posseible. Two Power suppli Limits the ou	IV, user select V, user select V output mon Or. Open colleid analog pre amming control BP So output Bill PS out	able. Accuracy able. Accuracy able. Accuracy itor. Open coll ector. CC mode ogramming co rol monitor sig by electrical si nable signals. I ut voltage = uninimum. Tr, 6W/2-30V or d pedance)=Fail units in Maste its. Refer to ins oa proggramm	y: +/-0.5%. y: +/-0.5%. lector. Output e: On. CV mod ntrol by electrial. Open colle ignal or dry co Maximum volt 0. 8V, Minimu Tf=1us Maxir y: contact. tr/Slave mode. truction manin sy chain to syr ned value. Pro	On: On. Outpre: Off. Maximrical signal or sctor. Remote: ntact. 0~0.6v intact. Remot age 25V, Max m high level num, Min de	aut Off: Off. Ma um Voltage: 3d dry contact. R On. Local: Off. 'or short, 2~3d imum sink cur linput voltac lay between uction manua ir turn-on and a the commun	aximum Voltz  DV, Maximum  Maximum Voltz  Maximum Vo  OV or open. U  Toort Local 2-2  Terent 100mA  10 2 pulses 1n  L  turn-off.  ication ports	Sink Current: Vor short. Loo ltage: 30V, Ma ser selectable -30V or open. (Shunted by 2: aximum high	10mA.  cal: 2~30V or c  ximum Sink Cu logic.  7V zener)  I level input :	pen. Irrent: 10mA.
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5.Output voltage monitor 6.Output current monitor (*15)  SIGNALS AND CONTROLS (ISOL/ 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signal 10. DAISY_IN/SO control signal 10. DAISY_IN/SO CONTROL signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control	ATED FROM THE OUTPU		Power supply CV/CC Monit Enable/Disat analog progra Enable/Disat Two open dra Maximum le edge trigge By electrical 4~5V=OK, 0V  Possible. Up l Possible. Two Power suppli Limits the ou Emulates seri	IV, user select IV, output mon IV, output mon IV, output I	able. Accuracy able. Accuracy able. Accuracy able. Accuracy actor. CC mode apgramming co rol monitor sig by electrical si by electrical si able signals. I ut voltage = minimum. Tr, 6V/2–30V or d pedance)=Fail units in Maste tits. Refer to ins anected in Dais a proggramr a resistance ra e and Output fi the front panel.	y: +/-0.5%. y: +/-0.5%. lector. Output e: On. CV mod ntrol by electinal. Open colle ignal or dry co ignal or d	On: On. Output e: Off. Maxim rical signal or tetor. Remote: ntact. 0~0.6V ntact. Remot aage 25V, Max m high level num, Min de Refer to instr ual herrorize the gramming vi nQ. Programming	ut Off: Off. Ma um Voltage: 3( dry contact. R On. Local: Off. / or short, 2~3( e: 0~0.6V or sh in unit sink cur linput voltagelay between uction manua ir turn-on and a the commun ning via the cor range: 0.0001	iaximum Volta DV, Maximum emote: 0~0.6 Maximum Vc DV or open. U ort. Local: 2- rent 100mA ge = 2.5V, M 2 pulses 1n  turn-off. iication ports mmunicatio ~999.99 V/m	Sink Current: Vor short. Loo bitage: 30V, Ma siser selectable -30V or open. (Shunted by 2: aximum high ns.  s or the front p n ports or the Sec. or A/mSec	10mA.  cal: 2~30V or c  ximum Sink Ct logic.  rV zener)  level input:  anel.  front panel.  . Programmir	pen. Irrent: 10mA. = 5V positive
5.Output voltage monitor 6.Output current monitor (*15)  SIGNALS AND CONTROLS (ISOL/ 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signal 10. DAISY_IN/SO control signal 10. DAISY_IN/SO control signal 10. DAISY_IN/SO CONTROL SIGNAL FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control	ATED FROM THE OUTPU		Power supply CV/CC Monit Enable/Disat analog progra Enable/Disat Two open dra Maximum le edge trigge By electrical 4~5V=OK, 0V  Possible. Up l Possible. Two Power suppli Limits the ou Emulates seri	IV, user select IV, output mon IV, output mon IV, output I	able. Accuracy able. Accuracy able. Accuracy able. Accuracy actor. CC mode apgramming co rol monitor sig by electrical si by electrical si able signals. I ut voltage = minimum. Tr, 6V/2–30V or d pedance)=Fail units in Maste tits. Refer to ins anected in Dais a proggramr a resistance ra e and Output fi the front panel.	y: +/-0.5%. y: +/-0.5%. lector. Output e: On. CV mod ntrol by electinal. Open colle ignal or dry co ignal or d	On: On. Output e: Off. Maxim rical signal or tetor. Remote: ntact. 0~0.6V ntact. Remot aage 25V, Max m high level num, Min de Refer to instr ual herrorize the gramming vi nQ. Programming	ut Off: Off. Ma um Voltage: 3( dry contact. R On. Local: Off. / or short, 2~3( e: 0~0.6V or sh in unit sink cur linput voltagelay between uction manua ir turn-on and a the commun ning via the cor range: 0.0001	iaximum Volta DV, Maximum emote: 0~0.6 Maximum Vc DV or open. U ort. Local: 2- rent 100mA ge = 2.5V, M 2 pulses 1n  turn-off. iication ports mmunicatio ~999.99 V/m	Sink Current: Vor short. Loo Oltage: 30V, Ma Sier selectable 30V or open. (Shunted by 2) aximum high ns.	10mA.  cal: 2~30V or c  ximum Sink Ct logic.  rV zener)  level input:  anel.  front panel.  . Programmir	pen. Irrent: 10mA. = 5V positive
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5.Output voltage monitor 6.Output current monitor (*15)  SIGNALS AND CONTROLS (ISOL/ 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signal 10. DAISY_IN/SO control signal 10. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms  PROGRAMMING AND READBA RS2323/485, Optional IEEE(*19 1.Vout programming accuracy (*1	ATED FROM THE OUTPU	T)	Power supply CV/CC Monitt Enable/Disak analog progr. Enable/Disak Enab	IV, user select IV, user selec	able. Accuracy able. Accuracy able. Accuracy able. Accuracy itor. Open coll ector. CC mode apgramming co rol monitor sig by electrical si by electrical si by electrical si ut voltage = minimum. Tr, 66//2~30V or d pedance)=Fail units in Maste its. Refer to ins mected in Dai: a a proggramm a e and Output f he front panel can be stored  30 age ent+0.2% of ra	y: +/-0.5%. y: +/-0.5%. y: +/-0.5%. leector. Output e: On. CV mod ntrol by electinal. Open colle ignal or dry co in 4 memory of in 4 memory of	On: On. Outpe e: Off. Maxim rical signal or ector. Remote: ntact. 0 - 0.6 v ntact. Cenoticage 25V, Maxim m high level num, Min de Refer to instrual. nchronize the gramming vi. no. Programming rogramming tells. Activatio	aut Off: Off. Ma um Voltage: 3( dry contact. R On. Local: Off. or short, 2~3( e: 0~0.6V or si imum sink cur input voltage lay between uction manua ir turn-on and a the commun ning via the cc range: 0.0001	aximum Voltz  DV, Maximum Voltz  DV, Maximum Voltz  DV or open. U.  DV or open. U.  JV or open	Sink Current: Vor short. Loo Oltage: 30V, Ma Isser selectable 30V or open. (Shunted by 2) aximum high ns.  For the front p n ports or the Sec. or A/mSec	10mA.	pen.  Irrent: 10mA.  = 5V positive  g via the  front panel.
5.Output voltage monitor 6.Output current monitor (*15)  SIGNALS AND CONTROLS (ISOL/ 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signal 10. DAISY_IN/SO control signal 10. DAISY_	ATED FROM THE OUTPU		Power supply CV/CC Monitt Enable/Disat analog progr. Enable/Disat Enable/Disat Enable/Disat Enable/Disat Enable/Disat Enable/Disat Enable/Disat Awo open dra Maximum le edge trigge By electrical A~5V=OK, 0V  Possible. Up p Possible. Two Power suppli Limits the ou Emulates seri Programmab communicati Profiles of up  0.05% of rate 0.1% of actual	IV, user select IV, user selec	able. Accuracy able. Accuracy able. Accuracy able. Accuracy itor. Open coll ector. CC mode ogramming co rol monitor sig by electrical si nable signals. I ut voltage = units in Maste its. Refer to ins its. Refer	y: +/-0.5%. y: +/-0.5%. y: +/-0.5%. leector. Output e: On. CV mod ntrol by electinal. Open colle ignal or dry co in 4 memory of in 4 memory of	On: On. Outpe e: Off. Maxim rical signal or ector. Remote: ntact. 0 - 0.6 v ntact. Cenoticage 25V, Maxim m high level num, Min de Refer to instrual. nchronize the gramming vi. no. Programming rogramming tells. Activatio	aut Off: Off. Ma um Voltage: 3( dry contact. R On. Local: Off. or short, 2~3( e: 0~0.6V or si imum sink cur input voltage lay between uction manua ir turn-on and a the commun ning via the cc range: 0.0001	aximum Voltz  DV, Maximum Voltz  DV, Maximum Voltz  DV or open. U.  DV or open. U.  JV or open	Sink Current: Vor short. Loo Oltage: 30V, Ma Isser selectable 30V or open. (Shunted by 2) aximum high ns.  For the front p n ports or the Sec. or A/mSec	10mA.	pen.  Irrent: 10mA.  = 5V positive  g via the  front panel.
5.Output voltage monitor 6.Output current monitor (*15)  5.GIGNALS AND CONTROLS (ISOL/ 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT sign 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal  FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 2. Series operation 5. Output resistance control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms  PROGRAMMING AND READBA RS232/485, Optional IEEE(*19 1.Vout programming accuracy (*1 2.lout programming accuracy (*1 2.lout programming accuracy (*1 2.lout programming accuracy (*1 2.lout programming accuracy (*1 3.Vout programming resolution	ATED FROM THE OUTPU		0~5V or 0~10 0~10 0~10 0~10 0~10 0~10 0~10 0~10	IV, user select IV, user selec	able. Accuracy able. Accuracy able. Accuracy able. Accuracy itor. Open coll ector. CC mode agramming co rol monitor sig by electrical si by electrical si able signals. I ut voltage = ninimm. Tr, 60/12–30V or d pedance)=Fail units in Maste its. Recter to insi a a proggram . Resistance ra e and Output f e a	y: +/-0.5%. y: +/-0.5%. y: +/-0.5%. leector. Output e: On. CV mod ntrol by electinal. Open colle ignal or dry co in 4 memory of in 4 memory of	On: On. Outpe e: Off. Maxim rical signal or ector. Remote: ntact. 0 - 0.6 v ntact. Cenoticage 25V, Maxim m high level num, Min de Refer to instrual. nchronize the gramming vi. no. Programming rogramming tells. Activatio	aut Off: Off. Ma um Voltage: 3( dry contact. R On. Local: Off. or short, 2~3( e: 0~0.6V or si imum sink cur input voltage lay between uction manua ir turn-on and a the commun ning via the cc range: 0.0001	aximum Voltz  DV, Maximum Voltz  DV, Maximum Voltz  DV or open. U.  DV or open. U.  JV or open	Sink Current: Vor short. Loo Oltage: 30V, Ma Isser selectable 30V or open. (Shunted by 2) aximum high ns.  For the front p n ports or the Sec. or A/mSec	10mA.	pen.  Irrent: 10mA.  = 5V positive  g via the  front panel.
5.Output voltage monitor 6.Output current monitor (*15) 5.IGNALS AND CONTROLS (ISOL/ 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signal 10. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READB/ RS23/485, Optional IEEE(*19) 1.Vout programming accuracy (*1) 3.Vout programming accuracy (*1) 3.Vout programming resolution 4.lout programming resolution	ATED FROM THE OUTPU		0~5V or 0~10 0~5V	IV, user select IV, user selec	able. Accuracy acc	y: +/-0.5%. y: +/-0.5%. leector. Output e: On. CV mod ntrol by electinal. Open colle ignal or dry co ignal or	On: On. Outpe e: Off. Maxim rical signal or ector. Remote: ntact. 0 - 0.6 v ntact. Cenoticage 25V, Maxim m high level num, Min de Refer to instrual. nchronize the gramming vi. no. Programming rogramming tells. Activatio	aut Off: Off. Ma um Voltage: 3( dry contact. R On. Local: Off. or short, 2~3( e: 0~0.6V or si imum sink cur input voltage lay between uction manua ir turn-on and a the commun ning via the cc range: 0.0001	aximum Voltz  DV, Maximum Voltz  DV, Maximum Voltz  DV or open. U.  DV or open. U.  JV or open	Sink Current: Vor short. Loo Oltage: 30V, Ma Isser selectable 30V or open. (Shunted by 2) aximum high ns.  For the front p n ports or the Sec. or A/mSec	10mA.	pen.  Irrent: 10mA.  = 5V positive  g via the  front panel.
5.Output voltage monitor 6.Output current monitor (*15) 5.IGNALS AND CONTROLS (ISOL/ 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signal 10. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms  PROGRAMMING AND READB/ RS232/485, Optional IEEE(*19) 1.Vout programming accuracy (*1) 2. lout programming resolution 4. lout programming resolution 5. Vout readback accuracy	ACK (USB, LAN, )(*20) Interfaces)	T)	0~5V or 0~10 0~5V	IV, user select IV, user selec	able. Accuracy acc	y: +/-0.5%. y: +/-0.5%. leector. Output e: On. CV mod ntrol by electinal. Open colle ignal or dry co ignal or	On: On. Outpe e: Off. Maxim rical signal or ector. Remote: ntact. 0 - 0.6 v ntact. Cenoticage 25V, Maxim m high level num, Min de Refer to instrual. nchronize the gramming vi. no. Programming rogramming tells. Activatio	aut Off: Off. Ma um Voltage: 3( dry contact. R On. Local: Off. or short, 2~3( e: 0~0.6V or si imum sink cur input voltage lay between uction manua ir turn-on and a the commun ning via the cc range: 0.0001	aximum Voltz  DV, Maximum Voltz  DV, Maximum Voltz  DV or open. U.  DV or open. U.  JV or open	Sink Current: Vor short. Loo Oltage: 30V, Ma Isser selectable 30V or open. (Shunted by 2) aximum high ns.  For the front p n ports or the Sec. or A/mSec	10mA.	pen.  Irrent: 10mA.  = 5V positive  g via the  front panel.
5.Output voltage monitor 6.Output current monitor (*15) 5.IGNALS AND CONTROLS (ISOL/ 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signal 10. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms  PROGRAMMING AND READB/ RS232/485, Optional IEEE(*19 1.Vout programming accuracy (*1 2. Lout programming resolution 5. Vout readback accuracy 6. Lout read	ATED FROM THE OUTPU	T)	Power supply CV/CC Monitt Enable/Disal: analog progr. Enable/Disal: Enable/Disal: Two open dra Maximum le edge trigge By electrical: 4~5V=OK, OV  Possible. Up: Possible. Two Power suppli Limits the ou Emulates seri Programmab communicati Profiles of up  10 0.05% of rate 0.002% of rate 0.002% of rate 0.2% of rate 0.2% of rated	IV, user select IV, user selec	able. Accuracy able. Accuracy able. Accuracy able. Accuracy itor. Open coll ector. CC mode agramming co rol monitor sig by electrical si by electrical si by electrical si able signals. I aut voltage = ininimum. Tr, 60/2~30V or d 60/2~30V or d 60/2~30V or d by electrical si in Maste its. Refer to ins innected in Dali a proggramm a Resistance ra e and Output f he front panel can be stored  30 age ent+0.2% of ra ltage ent tage	y: +/-0.5%. y: +/-0.5%. lector. Output e: On. CV mod ntrol by electinal. Open colle ignal or dry co ignal igna	On: On. Outp e: Off. Maximi rical signal or ector. Remote: ntact. 0 - 0.6 v intact. 0 - 0.6 v intact. or 1.6	aut Off: Off. Ma um Voltage: 3( dry contact. R On. Local: Off. or short, 2~3( e: 0~0.6V or sh imum sink cur linput voltaglay between  uction manua ir turn-on and a the commun ning via the cor range: 0.0001	aximum Voltz DV, Maximum emote: 0~0.6. Maximum Vo DV or open. U Over o	Sink Current: SV or short. Loo Jotage: 30V, Ma Jotage: 30V, Ma Jotage: 30V, or open. (Shunted by 2) Aximum high So or the front p In ports or the Sec. or A/mSec Inmunication p Iso	10mA.  al: 2~30V or c  ximum Sink Ct logic.  7V zener)  level input :  anel.  front panel.  Programmir  rorts or by the	pen. Irrent: 10mA.  = 5V positive  g via the front panel.  600

### **G**ENESYS™ 3.4kW SERIES SPECIFICATIONS

Eleand counts under 17   V	OUTPUT RATING		G	10-340	20-170	30-112	40-85	60-56	80-42	100-34	150-22.5	300-11.5	600-5.6
April   Selection   Company													
State of control project   W   More   20   20   20   20   20   20   20   2	<del></del>										+		
Part   Contact   Part	<del></del>					-		+					
Filtrage 2004 models   19-18/06											-		
Phose   2000 models   201-200 models	INPUT CHARACTERISTICS		V						80	100	150	300	600
Abantamorphysical part analysis   2-Paine, 4800   2-Paine, 4	1.Input voltage/freq. 3 phase, 3 w			3-Phase, 400 3-Phase, 480 1-Phase, 200	V models: 342 V models: 342 V models: 170	2~460Vac, 47~0 2~528Vac, 47~6	63Hz (Covers 63Hz (Covers 3	380/400/415V 380/400/415/4	140/460/480Va	ac)			
Fig.		3-Phase, 400V models: 3-Phase, 480V models:		6.5A @ 380Va 6.5A @ 380Va	ac ac								
AFFECRING (1)   Prof.   Prof	3 Power Factor (Typ)												
Simple content (**Poi   De   De   De   De   De   De   De   D							_		00.5	20.5	1 00 5	00.5	20.5
Constant Volunte Englished Profile	, , , , ,					89.5	90	90	90.5	90.5	90.5	90.5	90.5
Max. Lise regulation (**)													
2   2   2   2   2   2   2   2   2   2							40	60	80	100	150	300	600
Simple ram of moles (p-1, 20/bits) (1 %)													
Aggide rank, Sele-Mibit (**)   Selection		(*0)				_	75	- 00	- 00	100	120	200	400
Stemperature coefficient		*9)						-			1		
Comparative stability			-							15		00	100
Name										na load & tam			
Blemote service compensation with viel 100   V   2   2   5   5   5   5   5   5   5   5											ip.		
Supplement   File   F		ire (*10)			1			1	1	T	5	5	5
10.00mm prograsgoniae time													
10,00mm - 10		Full load (*11)			-			-					
Transfert response time													
Constant United   Sept   Constant United   Sept   Constant United   Sept   Se			mS	Time for out	out voltage to	recover within	n 0.5% of its ra	ated output fo	or a load chan	ge 10~90% of	rated output	current. Outpi	ut set-point:
CONSTANT CURRENT MODE						s than 1mS, for	models up to	and includin	g 100V. 2mS, f	or models ab	ove 100V.		
1.Max Line regulation (??)													
2.Max Land regulation (**13)							40	60	80	100	150	300	600
3.18pple r.m. s) rated voltage_1-Phase (*14)   m. m.   \$1200   \$300   \$300   \$300   \$300   \$300   \$300   \$300   \$300   \$300   \$300   \$400   \$450													
Alpplie m.m. @ rated voltage. 1-Phase (*14)						1							
201-100/F   100/FPM/C from rated output current, following 30 minutes warm-up.								1	1	+			
50-Resperature coefficient	4.Rippie r.m.s. @ rated voitage. 1-1	nase (*14)	mA								≤40	≤12	≤8
Comparture stability	5.Temperature coefficient		PPM/°C										
10V-100V model: Less than +/o.25% of rated output current over 30 minutes following power on.	6.Temperature stability										perature.		
ANALOG PROGRAMMING AND MONITORING (ISOLATED FROM THE OUTPUT)  1.You's voltage programming											•		
1.0out voltage programming	7. warm-up unit			150V~600V: I	Less than +/-0	.15% of rated o	output curren	t over 30 mini	utes following	power on.			
1.0out voltage programming	ANALOG PROGRAMMING AND M	ONITORING (ISOLATED	FROM 1	THE OUTPUT)									
2-100 with page programming (°15)						ser selectable.	Accuracy and	linearity: +/-	0.15% of rated	Vout.			
4.00tr tesistor programming (*15)	2.lout voltage programming (*15	)		0~100%, 0~5	V or 0~10V, us	ser selectable.	Accuracy and	linearity: +/-	0.4% of rated	lout.			
SOutput voltage monitor	3.Vout resistor programming			0~100%, 0~5	/10Kohm full	scale, user sele	ectable. Accur	racy and linea	rity: +/-0.5% c	of rated Vout.			
SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPUT)	4.lout resistor programming (*15)	)		0~100%, 0~5	/10Kohm full	scale, user sele	ectable. Accur	racy and linea	rity: +/-0.5% c	of rated lout.			
SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPUT)   1. Power supply OK #1 signal     Power supply output monitor. Open collector. Output On: On. Output Off: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA.   CV/CC Monitor. Open collector. CC mode: On. CV mode: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA.   CV/CC Monitor. Open collector. CC mode: On. CV mode: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA.   CV/CC Monitor. Open collector. CC mode: On. CV mode: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA.   CV/CC Monitor. Open collector. Remote: On. Local: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA.   CV/CC Monitor. Open collector. Remote: On. Local: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA.   CV/CC Monitor. Open collector. Remote: On. Local: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA.   CV/CC Monitor. Open collector. Remote: On. Local: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA.   CV/CC Monitor. Open collector. Remote: On. Local: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA.   CV/CC Monitor. Open collector. Remote: On. Local: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA.   CV/CC Monitor. Open collector. Remote: On. Local: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA.   CV/CC Monitor. Open collector. Remote: On. Local: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA.   CV/CC Monitor. Open collector. Remote: On. Local: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA.   CV/CC Monitor. Open collector. Remote: On. Local: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA.   CV/CC Monitor. Open collector. Collector. Remote: On. Local: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA.   CV/CC Monitor. Open collector. Collector. Remote: On. Local: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA.   CV/CC Monitor. Open collector. Collector. Collector. Remote: On. Local: Open collector. Coll													
Power supply OK #1 signal	6.Output current monitor (*15)			0~5V or 0~10	JV, user select	able. Accuracy	r: +/-0.5%.						
Power supply OK #1 signal	SIGNALS AND CONTROLS (ISOLA	TED FROM THE OUTPU	T)										
3. LOCAL/REMOTE Analog control				Power supply	y output moni	itor. Open coll	ector. Output	On: On. Outp	ut Off: Off. Ma	aximum Volta	ge: 30V, Maxin	num Sink Curre	ent: 10mA.
4. LOCAL/REMOTE Analog signal	2. CV/CC signal			CV/CC Monit	or. Open colle	ctor. CC mode	: On. CV mod	e: Off. Maximı	ım Voltage: 30	0V, Maximum	Sink Current:	10mA.	
5. ENABLE/DISABLE signal		1											
6. INTERLOCK (ILC) control				5, 5									rrent: 10mA.
7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 9.										· · · · · · · · · · · · · · · · · · ·		logic.	
8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 9. Daisy chain signals 9. Daisy cha												7\/	
edge triggger: tw=10us minimum. Tr,Tf=1us Maximum, Min delay between 2 pulses 1ms.  9. DAISY_IN/SO control signal													- 5\/ positi
9. DAISY_IN/SO control signal By electrical Voltage: 0~0.6W/2~30V or dry contact.  10. DAISY_OUT/PS_OK #2 signal 4~5V=OK, 0V (500 ohm impedance)=Fail  FUNCTIONS AND FEATURES  1. Parallel operation Possible. Up to 4 identical units in Master/Slave mode. Refer to instruction manual.  2. Series operation Possible. Two identical units. Refer to instruction manual.  3. Daisy chain Power supplies can be connected in Daisy chain to synchronize their turn-on and turn-off.  4. Constant power control Limits the output power to a proggrammed value. Programming via the communication ports or the front panel.  5. Output resistance control Emulates series resistance. Resistance range: 1~1000mΩ. Programming via the communication ports or the front panel.  6. Slew rate control Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports or by the front panel.  7. Arbitrary waveforms Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports or by the front panel.  PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE(*19)(*20) Interfaces) 0.05% of rated output voltage  2. Jout programming accuracy (*16) 0.05% of rated output current+0.2% of rated output current  3. Vout programming resolution 0.002% of rated output current  5. Vout readback accuracy (*15) 0.2% of rated output current  7. Vout readback resolution (of rated output voltage) 0.0% of rated output current  8. Output current  9. Output can be supplied to the communication ports or by the front panel.  9. Output current  9. Output	8. TRIGGER IN / TRIGGER OUT sign	als		edge triage	r: tw=10us n.	at voitage = 0 ninimum. Tr.7	7.0v,minimu T=1us Maxir	nı nıgn level num, Min de	lay between	e = ۷.۵۷, Ma ا 2 pulses 1m	ixiiiium nigh is.	ievei input =	- 24 hositive
10. DAISY_OUT/PS_OK #2 signal	9. DAISY_IN/SO control signal												
1. Parallel operation													
1. Parallel operation	FUNCTIONS AND FEATURES												
2. Series operation				Possible Un	to 4 identical	units in Maste	r/Slave mode	Refer to instr	uction manua	ıl			
3. Daisy chain									action manua				
4. Constant power control 5. Output resistance control 6. Slew rate control 6. Slew rate control 7. Arbitrary waveforms  Programmable Output rise and Output fall slew rate. Programming via the communication ports or the front panel.  Programmable Output rise and Output fall slew rate. Programming range: 0.0001~999.99 V/mSec. or A/mSec. Programming via the communication ports or the front panel.  Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports or by the front panel.  PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE(*19)(*20) Interfaces) 1./Vout programming accuracy (*16) 2.lout programming accuracy (*15) 3.Vout programming resolution 4.lout programming resolution 4.lout programming resolution 5. Output current 5. Output current 6. Slew rate control 7. Arbitrary waveforms  V 10 20 30 40 60 80 100 150 300 600 100 150 150 300 600 100 150 150 300 600 100 150 150 150 150 150 150 150 150 1			_						r turn-on and	turn-off.			
5. Output resistance control  6. Slew rate control  7. Arbitrary waveforms  Programmable Output rise and Output fall slew rate. Programming via the communication ports or the front panel.  7. Arbitrary waveforms  Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports or by the front panel.  PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE(*19)(*20) Interfaces)  1. Vultuary programming accuracy (*16)  2. Iout programming accuracy (*15)  3. Vultuary programming resolution											or the front p	anel.	
6. Slew rate control													
Communication ports or the front panel.	6. Slew rate control			Programmab	ole Output rise	and Output f	all slew rate. P						g via the
PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE(*19)(*20) Interfaces)   V   10   20   30   40   60   80   100   150   300   600			$\vdash$					colle Actions	n by ser	ad via +bc		orte or both	front nan-1
R5232/485, Optional IEEE(*19)(*20) Interfaces) V 10 20 30 40 60 80 100 150 300 600  1.Vout programming accuracy (*16)				rronnes of up	to 100 steps (	an pe stored	114 memory o	Leiis. Activatio	ıı by comman	iu via the com	imunication p	orts or by the f	ront panel.
1.Vout programming accuracy (*16)			V	10	20	30	40	60	80	100	150	300	600
2.lout programming accuracy (*15)				0.05% of rate	d output volt	age							
3.Vout programming resolution 0.002% of rated output voltage  4.lout programming resolution 0.002% of rated output current  5.Vout readback accuracy (*15) 0.2% of rated output voltage  7.Vout readback resolution (of rated output voltage) % 0.011% 0.006% 0.004% 0.003% 0.002% 0.001% 0.001% 0.007% 0.004% 0.002%							ted output cu	ırrent					
5.Vout readback accuracy													
6.lout readback accuracy (*15) 0.2% of rated output current 7.Vout readback resolution (of rated output voltage) % 0.011% 0.006% 0.004% 0.003% 0.002% 0.002% 0.011% 0.007% 0.004% 0.002%													
7.Vout readback resolution (of rated output voltage) % 0.011% 0.006% 0.004% 0.003% 0.002% 0.002% 0.011% 0.007% 0.004% 0.002%													
	6.lout readback accuracy (*15)		i T										
10													
8.lout readback resolution (of rated output current))								-		+			

### **GENESYS™ 5kW SERIES SPECIFICATIONS**

OUTPUT RATING		G	10-500	20-250	30-170	40-125	50-100	60-85	80-65	100-50	150-34	200-25	300-17	400-13	500-10	600-8.5
1.Rated output voltage(*1)		٧	10	20	30	40	50	60	80	100	150	200	300	400	500	600
2.Rated output current (*2)		Α	500 (*3)	250	170	125	100	85	65	50	34	25	17	13	10	8.5
3.Rated output power		W	5000	5000	5100	5000	5000	5100	5200	5000	5100	5000	5100	5200	5000	5100
INPUT CHARACTERISTICS		٧	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Input voltage/freq. 3 phase, 3 v	vire + Ground (*4)		3-Phase,	400V mod	lels: 342~	460Vac, 47	7~63Hz (Cc 7~63Hz (Cc 7~63Hz (Cc	overs 380	/400/415V		20Vac)					
2. Maximum Input current at 100% load	3-Phase, 200V models: 3-Phase, 400V models:		17.5A @ 2 9.2A @ 38	00Vac 80Vac	1013. 372	520 VaC, 47	03/12 (CC	JVE13 300/	+00/+15/+	10/100/10	JOVAC)					
	3-Phase, 480V models:		9.2A @ 38													
3.Power Factor (Typ) 4.Efficiency (Typ) (*5) (*22)		%	0.94 @ 20 89 (*21)		, rated ou	tput powe	er. 90	91	91	91	91	91	92	92	92	92
5.Inrush current (*6)		70 A	Less than		91	91	90	91	91	91	91	91	92	92	92	92
		V		20	30	40	F0.	- 60	00	100	150	200	200	400	500	600
1.Max. Line regulation (*7)			10 0.01% of	rated out		40	50	60	80	100	150	200	300	400	500	600
2.Max. Load regulation (*8)				rated out												
3.Ripple and noise (p-p, 20MHz)	(*Q)	mV	75	75	75	75	75	75	80	90	120	200	200	400	450	480
4.Ripple r.m.s. 5Hz~1MHz (*9)	( )	mV	8	10	12	12	12	12	15	15	20	45	60	80	80	100
5.Temperature coefficient		PPM/°C					following:								_ 00	100
6.Temperature stability					<u>-</u> _		following				nt line loa	d & temp				
7. Warm-up drift							ge+2mV ov									
8.Remote sense compensation/v	vire (*10)	V	2	2	5	5	5	5	5	5	5	5	5	5	5	5
9.Up-prog. Response time (*11)		mS	30	30	30	30	50	50	50	50	50	50	50	100	100	100
	Full load (*11)	mS	50	50	80	80	80	80	100	100	100	100	100	150	200	200
10.Down-prog.response time:	No load (*12)	mS	300	600	800	900	950	1000	1200	1900	2000	2500	3000	4000	4000	3000
11.Transient response time		mS	Time for o	output vo	Itage to re	ecover wit	hin 0.5% o	of its rated	output fo	r a load cl	nange 10~	-90% of ra dels abov	ited outpu	it current.	. Output s	et-point:
12.Start up delay		Sec	Less than		ise. Less t	11011 11113,	ioi illouei:	s up to an	u iiiciuuiii	g 100v. 21	113, 101 1110	ideis abov	e 100v.			
CONSTANT CURRENT MODE		V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Max. Line regulation (*7)			-	rated out			30	60	00	100	150	200	300	400	300	000
2.Max. Load regulation (*13)			0.03% of													
3.Ripple r.m.s. @ rated voltage. B.	.W 5Hz~1MHz (*14)	mA	≤1200	≤600	≤300	≤150	≤130	≤100	≤70	≤45	≤45	≤45	≤15	≤12	≤10	≤8
5.Temperature coefficient		PPM/°C	10V~100\	/ 100PI	PM/°C fro	m rated o	utput curr	ent, follov	ving 30 mi	nutes wa	m-up.	5				
6.Temperature stability			_				tput curre					ıd & tempe	erature.			
7. Warm-up drift							of rated ou						1.			
7. Warm-up drift  ANALOG PROGRAMMING AND I	MONITORING (ISOLATED		150V~600	0V: Less th			of rated ou d output o						1.			
,	MONITORING (ISOLATED		150V~600 HE OUTPU	OV: Less th	nan +/-0.1!	5% of rate		urrent ov	er 30 minu	ites follov	ving powe	er on.	1.			
ANALOG PROGRAMMING AND I		FROM T	150V~600 HE OUTPU 0~100%,	0V: Less th JT) 0~5V or 0	nan +/-0.1! ~10V, use	5% of rate r selectab	d output o	current ov	er 30 minu earity: +/-(	ites follov	ving powe	er on.	1.			
ANALOG PROGRAMMING AND I		FROM T	150V~600 HE OUTPU 0~100%, 0~100%,	0V: Less th JT) 0~5V or 0 0~5V or 0	~10V, use ~10V, use	5% of rate r selectab r selectab	d output o	cy and line	er 30 minu earity: +/-( earity: +/-(	0.15% of ra	ving powe nted Vout. ted lout.	er on.	1.			
ANALOG PROGRAMMING AND I 1.Vout voltage programming 2.lout voltage programming (*1!	5)	FROM T	150V~600 HE OUTPU 0~100%, 0~100%, 0~100%, 0~100%,	0V: Less th JT) 0~5V or 0 0~5V or 0 0~5/10Ko 0~5/10Ko	~10V, use ~10V, use ~10V, use hm full sc	r selectab r selectab ale, user s ale, user s	le. Accurade. Accurade le. Accurade le	cy and line cy and line Accuracy	earity: +/-( earity: +/-( and linea and linea	0.15% of ra 0.4% of ra rity: +/-0.5	ving power ated Vout. ted lout.	d Vout.	1.			
ANALOG PROGRAMMING AND I 1. Vout voltage programming 2. lout voltage programming (*1: 3. Vout resistor programming	5)	FROM T	150V~600 HE OUTPU 0~100%, 0~100%, 0~100%, 0~100%,	0V: Less th JT) 0~5V or 0 0~5V or 0 0~5/10Ko 0~5/10Ko	~10V, use ~10V, use ~10V, use hm full sc	r selectab r selectab ale, user s ale, user s	le. Accurae le. Accurae le. Accurae electable.	cy and line cy and line Accuracy	earity: +/-( earity: +/-( and linea and linea	0.15% of ra 0.4% of ra rity: +/-0.5	ving power ated Vout. ted lout.	d Vout.	1.			
ANALOG PROGRAMMING AND I 1. Vout voltage programming 2. lout voltage programming (*1! 3. Vout resistor programming (*1! 4. lout resistor programming (*1!	5)	FROM T	150V~600 HE OUTPU 0~100%, 0~100%, 0~100%, 0~100%, 0~5V or 0	0V: Less th JT) 0~5V or 0 0~5V or 0 0~5/10Ko 0~5/10Ko 0~10V, use	~10V, use ~10V, use ~10V, use hm full sc hm full sc	r selectab r selectab ale, user s ale, user s ale, Accura	le. Accurade. Accurade le. Accurade le	cy and line cy and line Accuracy Accuracy % of ratec	earity: +/-( earity: +/-( and linea and linea I Vout.	0.15% of ra 0.4% of ra rity: +/-0.5	ving power ated Vout. ted lout.	d Vout.	1.			
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#### GENESYS™ 2.7kW/3.4kW/5kW SERIES SPECIFICATIONS

PROTECTIVE FUNCTIONS		V	10         20         30         40         50         60         80         100         150         200         300         400         500         600
1.Foldback protection			Output shut-down when power supply changes mode from CV or Power Limit to CC mode or from CC or Power Limit to CV mode. User presetable. Reset by AC input recycle in autostart mode, by Power Switch, by OUTPUT button, by rear panel or by communication.
2.Over-voltage protection (OVP)			Output shut-down. Reset by AC input recycle in autostart mode, by OUTPUT button, by rear panel or by communication.
3.Over -voltage programming rang	e	V	0.5~12   1~24   2~36   2~44.1   5-55.125   5~66.15   5~88.2   5~110.25   5~165.37   5~220.5   5~330.75   5~441   5~551.25   5~661
4. Over-voltage programming accu	racy		+/-1% of rated output voltage
5.Output under voltage limit (UVL)			Prevents from adjusting Vout below limit. Does not apply in analog programming. Preset by front panel or communication port.
6.Over temperature protection			Shuts down the output. Auto recovery by autostart mode.
7. Output under voltage limit (UVL)			Prevents adjustment of Vout below limit.
8. Output under voltage protection	(UVP)		Prevents adjustment of Vout below limit. P.S output turns Off during under voltage condition. Reset by AC input recycle in autostart mode, by Power Switch, by OUTPUT button, by rear panel or by communication.
FRONT PANEL			
1.Control functions			Multiple options with 2 Encoders
			Vout/lout/Power Limit manual adjust
			OVP/UVL/UVP manual adjust
			Protection Functions - OVP, UVL, UVP, Foldback, OCL, ENA, ILC
			Communication Functions - Selection of LAN, IEEE, RS232, RS485, USB or Optional communication interface.
<u> </u>			Output ON/OFF. Front Panel Lock.
			Communication Functions - Selection of Baud Rate, Address, IP and communication language.
			Analog Control Functions - Selection Voltage/resistive programming, 5V/10V, 5K/10K programming
			Analog Monitor Functions - Selection of Voltage/Current Monitoring 5V/10V.
2.Display			Vout: 4 digits, accuracy: 0.05% of rated output voltage +/-1 count.
			lout: 4 digits, accuracy: 0.2% of rated output current +/-1 count.
3.Front Panel Buttons Indications			OUTPUT ON, ALARM, PREVIEW, FINE, COMMUNICATION, PROTECTION, CONFIGURATION, SYSTEM, SEQUENCER.
4. Front Panel Display Indications			Voltage, Current, Power, CV, CC, CP, External Voltage, External Current, Address, LFP, Autostart, Safetstart, Foldback V/I, Remote (communication), RS/USB/LAN/IEEE communication, Trigger, Load/Store Cell.
ENVIRONMENTAL CONDITIONS			
1.Operating temperature			0~50°C, 100% load.
2.Storage temperature			-30~85°C
3.Operating humidity		%	20~90% RH (no condensation).
4.Storage humidity		%	10~95% RH (no condensation).
5.Altitude (*17)			Operating: 10000ft (3000m), output current derating 2%/100m or Ta derating 1°C/100m above 2000m. Non operating: 40000ft (12000m).
			operating, 100001 (500011), output current detaining 2.76 10011 to detaining 1.67 10011 above 200011. Not operating, 1000011 (1200011).
MECHANICAL			
1.Cooling			Forced air cooling by internal fans. Air flow direction: from Front panel to power supply rear
2.Weight		kg	2.7kW/3.4kW - Less than 6.25kg. 5kW - Less than 7.5kg.
3.Dimensions (WxHxD)		mm	W: 423, H: 43.6, D: 441.5 (Without busbars and busbars cover), W: 423, H: 43.6, D: 553.2 (Including busbars and busbars cover) (Refer to Outline drawing).
4.Vibration			MIL-810G, method 514.6, Procedure I, test condition Annex C - 2.1.3.1
5.Shock			Less than 20G, half sine, 11mSec. Unit is unpacked.
SAFETY/EMC			
1.Applicable standards:	Safety		UL61010-1, CSA22.2 No.61010-1, IEC61010-1, EN61010-1.
1.1. Interface classification	,		Vout≤50V Models: Output, J1, J2, J3, J4, J5, J6, J7, J8 (sense) & J9 (communication options) are Non Hazardous. 60≤Vout≤600V Models: Output & J8 (sense) are hazardous, J1, J2, J3, J4, J5, J6, J7 & J9 (communication options) are Non Hazardous.
1.2 Withstand voltage			Vout≤50V Models: Input – Output & J8 (sense), J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VDC 1min, Input - Ground: 2835VDC 1min. 60V≤Vout≤100V Models: Input – Output & J8 (sense), J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VDC 1min, Output & J8 (sense) - J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 850VDC 1min. Output & J8 (sense) - Ground: 1500VDC 1min, Input - Ground: 2835VDC 1min. 100V <vout≤600v &="" (communication="" (sense)="" (sense),="" -="" 1275vdc="" 1min.="" 1min.<="" 2500vdc="" 2835vdc="" 4242vdc="" and="" ground:="" input="" j1,="" j2,="" j3,="" j4,="" j5,="" j6,="" j7="" j8="" j9="" models:="" options):="" output="" td="" –=""></vout≤600v>
			100Mohm at 25°C, 70%RH. Output to Ground 500VDC
1.3 Insulation resistance			100Moninal 25°C, 70%km. Output to Ground 500VDC
1.3 Insulation resistance 2.Conducted emmision			IEC/EN61204-3 Industrial environment, Annex H table H.1 , FCC Part 15-A, VCCI-A.

Unless otherwise noted, specifications are warranted over the ambient temperature range of  $0^{\circ}$  to  $50^{\circ}$  C.

- Unless otherwise noted, specifications are warranted over the ambient temperature range of 0" to 50" C.

  NOTES:

  1. Minimum voltage is guaranteed to maximum 0.1% of rated output voltage.
  2. Minimum current is guaranteed to maximum 0.2% of rated output current.
  3. GSKW: Derate SA/1"C above 40"C.
  3. 4. For cases where conformance to various safety standards (UL, IEC, etc.....) is required, to be described as 190-240Vac (50/60Hz) for 3-Phase
  4. For cases where conformance to various safety standards (UL, IEC, etc.....) is required, to be described as 190-240Vac (50/60Hz) for 3-Phase
  5. 3-Phase 200V models: At 200Vac input voltage, 3-Phase 400/480V: At 380Vac input voltage. With rated output power.
  6. Not including EMI filter inrush current, Ises than 0.2 mSec.
  7. 3-Phase 200V models: 170-265Vac, 3-Phase 400V models: 342~460Vac, 3-Phase 480V models: 342~528Vac. Constant load.
  8. From No-Load to Full-Load, constant input voltage. Measured at the sensing point in Remote Sense.
  9. For 10V-150V models: Measured with JEITA RC-913IC (1:1) probe. For 200~600V model: Measured with 100:1 probe.
  10: The maximum voltage on the power supply terminals must not exceed the rated voltage.
  11: From 190% to 10% of Rated Output Voltage.
  12: From 90% to 10% of Rated Output Voltage, with rated, resistive load.
  12: From 90% to 10% of Rated Output Voltage, with rated, resistive load.
  12: From 90% to 10% of Rated Output Voltage.
  13: For load voltage change, equal to the unit voltage rating, constant input voltage.
  14: For 10V model, the ripple is measured at 20~100% of rated output voltage and rated output current. For other models, the ripple is measured at 10~100% of rated output voltage and rated output current. For other models, the ripple is measured at 10~100% of rated output voltage and rated output current. For other models, the ripple is measured at 10~100% of rated output voltage and rated output current. For other models, the ripple is measured at 10~100% of rated output voltage and rated output current. For other models, the r

### **G**ENESYS<sup>™</sup> 7.5kW SERIES SPECIFICATIONS

Development Private	OUTPUT RATING	G	20-375	30-250	40-188	60-125	80-94	100-75	150-50	200-37.5	300-25	600-12.5	1000-7.5	1500-5
Beefed output provement     V   20   30   40   50   88   100   150   200   5														A
Pater   Compared current   17		V	-											1500
### PRIFECHAMPERISTES    V   26   86   80   80   10   10   10   20   20   20   20   2						_				_				5
Page   19th						_	_	_						7500
			-											
Springer	INPUT CHARACTERISTICS	V							150	200	300	600	1000	1500
Martinian hipst carrier at	1.Input voltage/freq. 3 phase, 3 wire+ground (*4)								40/460/400					
Title   Titl	2 Ph 200V	-			342~528Va	IC, 4/~63HZ	(Covers 380	)/400/415/4	40/460/480	vac).				
Properties (1976)   1976   1														
Efficiency (Type) (TS) (TS)   5	[5 11.000]				od output r	2011/01								
Street Control (**POLICE**)   A   Sestime (6.4)   Test of color projection (**POLICE**)   Test of color projection (**POLICE	7.						**	01	01	**	**	02	**	02
Control   Cont					- 71			- 71				92		72
Max. Load regulation (**)														
2016   1920		-				60	80	100	150	200	300	600	1000	1500
Supple can deside to p. 20MHz(19)		-												
Emperature Conference	-													
Semperature coefficient														1300
Contract time   Load & temperature   Load & tempe												100	**	500
Less than 0.05% of rated output village. 2 m/l very 30 minutes following power on.										tline lead 0	tomporati			
Remote serve compensation/vire/***100   V   2   5   5   5   5   5   5   5   5   5	· · · · · · · · · · · · · · · · · · ·	-									temperatu	ire.		
Supplementary   File	·		1								5	5	5	5
Down prog. response time														200
10.Down pog. response time	Full load (*11)													400
This face is compared time		,,,,,												3000
11.7.	p. 10 10dd ( 12)													, 5000
	11.Transient response time		Output set	point: 10~1	00%, Local	sense.				-		.,		
Simple content   Simp		<u> </u>	+		els up to an	ıd including	100V. 2mS	tor models	above 100V	<u> </u>				
CONSTANT CURRENT MODE														
Max. Lod repolation (**)			pms Typica											
Associate regulation (*13)	CONSTANT CURRENT MODE	V	_			60	80	100	150	200	300	600	1000	1500
A.   PPMC   201-100   ***   \$300   ***   \$300   ***   \$30   \$45   ***   ***   \$14   ***   \$5   \$6   \$6   \$6   \$6   \$6   \$6   \$6														
Alemperature coefficient														
	3.Ripple r.m.s. 5Hz~1MHz (*14)	mA									**	≤14	**	≤5
Simple parture stability	4.Temperature coefficient	PPM/°C												
20V-100Y models Less than +-0.25% of rated output current over 30 minutes following power on.			+											
SOV-1500V models: Less than +/-0.15% of rated output current over 30 minutes following power on.	5.Temperature stability											re.		
Institute   Inst	6.Warm-up drift													
1.0   1.0			150V~1500	V models: L	ess than +/-	0.15% of rat	ed output o	current over	30 minutes	s following p	power on.			
2.00 trustage programming (*15)	ANALOG PROGRAMMING AND MONITORING (ISOLATED	FROM T	HE OUTPUT	5)										
South resistor programming	1.Vout voltage programming		0~100%, 0	~5V or 0~10	V, user sele	ctable. Accı	uracy and lir	nearity: +/-0	).15% of rate	ed Vout.				
Soutput voltage monitor	2.lout voltage programming (*15)		0~100%, 0	~5V or 0~10	V, user sele	ctable. Accı	iracy and lir	nearity: +/-0	.4% of rate	d lout.				
Soutput voltage monitor	3. Vout resistor programming		0~100%, 0	~5/10KΩ ful	l scale, user	selectable.	Accuracy a	nd linearity	: +/-0.5% of	rated Vout.				
Flower supply Output Current monitor (*15)	4.lout resistor programming (*15)		0~100%, 0	~5/10KΩ ful	l scale, user	selectable.	Accuracy a	nd linearity	: +/-0.5% of	rated lout.				
SIGNALS AND CONTROLS (ISOLATED FROMTHE OUTPUT)  1.Power supply OK #1 signal	5.Output voltage monitor													
Power supply OK #1 signal	6.Output current monitor (*15)		0~5V or 0~	10V, user se	lectable. Ac	curacy: +/-0	0.5% of rate	d lout.						
CV/CC Monitor. Open collector. CC mode: On. CV mode: Off. Maximum Voltage: 30V. Maximum Sink Current: 10mA.   3.LOCAL/REMOTE Analog control   4.LOCAL/REMOTE Analog signal	SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPUT	r)												
SLOCAL/REMOTE Analog control	1.Power supply OK #1 signal		Power supp	oly output r	nonitor. Op	en collector	r. Output Or	n: On. Outpi	ut Off: Off. N	Maximum V	oltage: 30V.	Maximum S	Sink Current	t: 10mA.
A.LOCAL/REMOTE Analog signal     Analog programming control monitor signal. Open collector. Remote: On. Local: Off. Maximum Voltage: 30V. Maximum Sink Current: 1	2.CV/CC signal		CV/CC Mon	itor. Open o	collector. CC	mode: On.	.CV mode: (	Off. Maximu	m Voltage:	30V. Maxim	um Sink Cu	rrent: 10mA		
Enable/Disable PS output by electrical signal or dry contact. 0-0.6V or short, 2-30V or open. User selectable logic. 6.INTERLOCK (ILC) control	3.LOCAL/REMOTE Analog control		Enable/Dis	able analog	programm	ing control	by electrica	al signal or c	lry contact.	Remote: 0~	-0.6V or sho	rt. Local: 2~	30V or ope	n.
Enable/Disable PS output by electrical signal or dry contact. Output ON: 0 – 0.6V or short. Output OFF: 2-30V or open.   Two open drain programmable signals. Maximum voltage 25V. Maximum sink current 100mA (shunted by 27V zener).   Aximum low level input voltage = 0.8V. Minimum high level input = 5V positive edge trigger: tw = 10us minimum. Tr,Tf = 1us maximum. Minimum high level input = 5V positive edge trigger: tw = 10us minimum. Tr,Tf = 1us maximum. Minimum high level input = 5V positive edge trigger: tw = 10us minimum. Tr,Tf = 1us maximum. Minimum high level input = 5V positive edge trigger: tw = 10us minimum. Tr,Tf = 1us maximum. Minimum high level input = 5V positive edge trigger: tw = 10us minimum. Tr,Tf = 1us maximum. Minimum high level input = 5V positive edge trigger: tw = 10us minimum. Tr,Tf = 1us maximum. Minimum high level input = 5V positive edge trigger: tw = 10us minimum. Tr,Tf = 1us maximum. Minimum high level input = 5V positive edge trigger: tw = 10us minimum. Tr,Tf = 1us maximum. Minimum high level input = 5V positive edge trigger: tw = 10us minimum. Tr,Tf = 1us maximum. Minimum high level input = 5V positive edge trigger: tw = 10us minimum. Tr,Tf = 1us maximum. Minimum high level input edge = 2.5V. Minimum high level input edge = 0.6V(2-30V or dry contact.    Positive edge trigger: tw = 10us minimum. Tr,Tf = 1us maximum. Minimum high level input edge = 0.6V(2-30V or dry contact.   Positive edge trigger: tw = 10us minimum. Tr,Tf = 1us maximum. Minimum high level input edge = 0.0V(2-30V or dry contact.   Positive edge trigger: tw = 10us minimum. Tr,Tf = 1us maximum. Minimum high level inp	3 3													rent: 10mA.
Two open drain programmable signals														
Maximum low level input voltage = 0.8V. Minimum high level input voltage = 2.5V.														
Maximum high level linput = 5V positive edge trigger: tw = 10us minimum. Tr, Tf = 1us maximum.   Min day between 2 pulses Inns.	7. Programmed signals		1			~					1A (shunted	d by 27V zen	er).	
Min delay between 2 pulses Ims.   By electrical Voltage: 0~0.6V/2~30V or dry contact.	8 TRIGGER IN / TRIGGER OUT signals		Maximum	ow level inp	out voltage	= 0.8V. Mini	mum high	level input v	/oltage = 2.	5V. = 100 mavir	num			
DAISY_IN/SO control signal	S SELLINY, THISGER OUT SIGNAL	L	Min delay b	etween 2 p	oulses 1ms.		yycı.tw	1003111111		- I G I II G A I I				
FUNCTIONS AND FEATURES  1. Parallel operation							ntact.							
1. Parallel operation	10.DAISY_OUT/PS_OK #2 signal		4~5V = OK,	0V (500Ω ir	npedance)	= Fail.								
1. Parallel operation	FUNCTIONS AND FEATURES													
2. Series operation			Possible. U	p to 4 ident	ical units in	Master/Slav	ve mode. Re	fer to instru	uction manu	ual.				
3. Daisy chain														
4. Constant power control	•								r turn-on ar	d turn-off.				
6. Slew rate control	4. Constant power control		Limits the	output pow	er to a prog	rammed va	lue. Progran	mming via t	he commur	nication por	ts or the fro	ont panel.		
6. Slew rate control	5. Output resistance control							. Programm	ing via com	munication	ports or fro	ont panel.		
Activation by command via communication ports of front panel.    PROGRAMMING AND READBACK   USB, LAN, RS232/485, Optional (*I7) (*20) Interfaces)   V   20   30   40   60   80   100   150   200   300   600   1000   150   1000	6. Slew rate control		Programm	ing range: 0	.0001~999.	99 V/mS. or	A/mS.							
LOSE, LAN, RS232/485, Optional (*17) (*20) Interfaces   V		<u> </u>	Profiles of	up to 100 ste	eps can be s	stored in 4 n	nemory cell							
2.Iout programming accuracy (*15)        0.1% of actual output current + 0.2% of rated output current.         3.Vout programming resolution        0.002% of rated output voltage.         4.Iout programming resolution        0.002% of rated output current.         5.Vout readback accuracy        0.05% of rated output voltage.         6.Iout readback accuracy (*15)        0.2% of rated output current.         7.Vout readback resolution of rated output       %       0.006%       0.004%       0.002%       0.002%       0.011%       0.007%       0.005%       0.004%       0.002%       0.011%	(USB, LAN, RS232/485, Optional (*17) (*20) Interfaces)					60	80	100	150	200	300	600	1000	1500
3.Vout programming resolution 0.002% of rated output voltage.  4.lout programming resolution 0.002% of rated output current.  5.Vout readback accuracy (*15) 0.2% of rated output voltage.  7.Vout readback accuracy (*15) 0.05% of 0.004% 0.003% 0.002% 0.001% 0.007% 0.005% 0.004% 0.002% 0.011% 0.007% 0.005% 0.004% 0.002% 0.011% 0.007% 0.005% 0.004% 0.002% 0.011% 0.007% 0.005% 0.004% 0.002% 0.011% 0.005% 0.004% 0.002% 0.011% 0.005% 0.005% 0.004% 0.002% 0.011% 0.005% 0.005% 0.004% 0.005% 0.004% 0.005% 0.004% 0.005% 0.004% 0.005% 0.004% 0.005% 0.004% 0.005% 0.004% 0.005% 0.004% 0.005% 0.004% 0.005% 0.005% 0.005% 0.005% 0.004% 0.005% 0.			+			2% of rated (	output curr	ent.						
4.lout programming resolution        0.002% of rated output current.         5.Vout readback accuracy        0.05% of rated output voltage.         6.lout readback accuracy (*15)        0.2% of rated output current.         7.Vout readback resolution of rated output       %       0.006%       0.004%       0.003%       0.002%       0.011%       0.007%       0.005%       0.004%       0.002%       0.011%       0.007%       0.005%       0.004%       0.002%       0.011%       0.007%       0.005%       0.004%       0.002%       0.001%       0.005%       0.004%       0.002%       0.001%       0.005%       0.004%       0.002%       0.001%       0.005%       0.004%       0.002%       0.001%       0.005%       0.004%       0.002%       0.001%       0.005%       0.004%       0.002%       0.001%       0.005%       0.005%       0.004%       0.002%       0.001%       0.005%       0.005%       0.004%       0.002%       0.001%       0.005%		-												
5.Vour readback accuracy 0.05% of rated output voltage. 6.lout readback accuracy (*15) 0.2% of rated output current.  7.Vour readback resolution of rated output														
6.lout readback accuracy (*15) 0.2% of rated output current.  7.Vout readback resolution of rated output														
ZVout readback resolution of rated output														
8 Jout readback resolution of rated output current	6.lout readback accuracy (*15)			0.0040/	0.0020/									0.0070/
0.00270   0.0027	7.Vout readback resolution of rated output	%												0.007%

#### **G**ENESYS<sup>™</sup> 7.5kW SERIES SPECIFICATIONS

PROTECTIVE FUNCTIONS		V	20	30	40	60	80	100	150	200	300	600	1000	1500			
1. Foldback protection			Output shut-down when power supply changes mode from CV or Power Limit to CC mode or from CC or Power Limit to CV mode. User presetable Reset by AC input recycle in autostart mode, by Power Switch, by OUTPUT button, by rear panel or by communication.  Output shut-down. Reset by AC input recycle in autostart mode, by Power Switch, by OUTPUT button, by rear panel or by communication.														
2.Over-voltage protection (OVP)																	
3.Over-voltage programming ra		V	1~24	2~36	2~44.1	5~66.15	5~88.2	5~110.25	5~165.37	5~220.5	5~330.75	5~661.5	5~1212.75	5~1653.7			
4.Over-voltage programming ac 5.Output under voltage limit (U'			+/-1% of rat			limit Door	at annly in		rammina Dr	cat by frant		mmunication	- nort				
6.Over temperature protection	VL)					ry by autost		analog progi	ramming. Pre	eset by front	panel or col	nmunicatioi	i port.				
7.Output under voltage protect	ion (UVP)		Prevents ad	justment of	Vout below I	imit. P.S out	put turns Of	f during und h, by OUTPU			by commu	nication.					
FRONT PANEL																	
1.Control functions			Multiple op	tions with 2	Encoders												
1.control functions					nanual adjus	t							,				
			OVP/UVL/U														
				Protection Functions - OVP, UVL, UVP, Foldback, OCL, ENA, ILC													
			Communication Functions - Selection of LAN, IEEE, RS232, RS485, USB or Optional communication interface.														
			Output ON/OFF. Front Panel Lock.														
			Communication Functions - Selection of Baud Rate, Address, IP and communication language.  Applica Control Functions - Selection Voltage (resistive programming 51/10)/ 51/10/K programming														
			Analog Control Functions - Selection Voltage/resistive programming, 5V/10V, 5K/10K programming Analog Monitor Functions - Selection of Voltage/Current Monitoring 5V/10V.														
2.Display																	
						output curr											
3. Front Panel Buttons Indication	ns		OUTPUT ON	, ALARM, PR	EVIEW, FINE	COMMUNIC	CATION, PRO	TECTION,CO	NFIGURATIO	N, SYSTEM, S	EQUENCER						
4. Front Panel Display Indication	ns					xternal Volt rigger, Load		al Current, Ac	ldress, LFP, A	utostart, Saf	etstart, Fold	back V/I, Rei	mote (commu	ınication),			
ENVIRONMENTAL CONDITION:	5																
1.Operating temperature			0~50°C, 100	% load													
2.Storage temperature			-30~85°C	70 IOUU.													
3.Operating humidity		%	1	20~90% RH (no condensation).													
4.Storage humidity		%	10~95% RH (no condensation).														
5.Altitude (*17)		Operating: 10000ft (3000m), output current derating 2%/100m or Ta derating 1°C/100m above 2000m. Non operating: 40000ft (12000m).															
MECHANICAL																	
1.Cooling			Forced air c	ooling by int	ernal fans. A	irflow direct	tion: From fr	ont panel to	nower suppl	v rear							
2.Weight		kg	Less than 8.		CITIAI TATIS. 71	iiiiow direct		one paner to	power supp	y reur.							
3.Dimensions (WxHxD)		mm	W: 423, H: 43.6, D: 486.5 (Without busbars and busbars cover), W: 423, H: 43.6, D: 598.1 (Including busbars and busbars cover).														
4.Vibration			MIL-810G, method 514.6, Procedure I, test condition Annex C - 2.1.3.1														
5.Shock			Less than 20G, half sine, 11mS. Unit is unpacked.														
SAFETY/EMC																	
1.Applicable standards:	Safety		III 61010-1	-SΔ22.2 No.	61010-1 IFC6	51010-1, EN61	1010-1										
1.Applicable stalldards.	Jaiety		_					J9 (commun	ication ontic	ns) are Non I	Hazardous						
1.1. Interface classification								J1, J2, J3, J4, J				s) are Non H	azardous				
			Vout≤50V N		- Output &			5, J6, J7 & J9 (					izardous.				
					: Input – Out	put & J8 (ser J6, J7 & J9 (c	nse), J1, J2, J ommunicat	3, J4, J5, J6, J7 on options):	7 & J9 (comm 850VDC 1mi	unication op n, Output & J	stions): 4242 8 (sense) - 0	VDC 1min, iround: 1500	VDC 1min,				
1.2 Withstand voltage			Output & J8	100V <vout≤600v &="" (communication="" (sense)="" (sense),="" -="" 1275vdc="" 1min,="" 1min.="" 1min.<="" 2500vdc="" 2835vdc="" 4242vdc="" and="" ground:="" input="" j1,="" j2,="" j3,="" j4,="" j5,="" j6,="" j7="" j8="" j9="" models:="" options):="" output="" td="" −=""></vout≤600v>													
			Output & J8		J2, J3, J4, J5,			2, J3, J4, J5, J on options):									
1.3.Isolation resistance						Ground 50											
2.EMC standards (*18)			IEC/EN6120	4-3 Industria	l environme	nt, Annex H	table H.1 , F	CC Part 15-A,	VCCI-A.								
2.1.Conducted emission			IEC/EN6120	4-3 Industria	l environme	nt, Annex H	table H.3 ar	nd H4, FCC Pa	art 15-A, VCC	I-A							
2.2.Radiated emission			IEC/EN6120	4-3 Industria	l environme	nt											

Unless otherwise noted, specifications are warranted over the ambient temperature range of 0° to 50° C.

- \*\*: Coming soon
- \*1: Minimum voltage is guaranteed to maximum 0.15% of rated output voltage for 20V and 30V / 0.1% of rated output voltage for 40V and 1500V \*2: Minimum current is guaranteed to maximum 0.2% of rated output current.
  \*3 Typ. at Ta=25°C, rated output power.
  \*4: For cases where conformance to various safety standards (UL, IEC, etc...) is required, to be described as 190-240Vac (50/60Hz) for 3-Phase 200V models

- \*4: For cases where conformance to various safety standards (UL, IEC, etc...) is required, to be described as 190-240Vac (50/60Hz) for 3-Phase 200V models and 380~480Vac (50/60Hz) for 3-Phase 480V models.

  \*5: 3-Phase 200V models: At 200Vac input voltage, 3-Phase 400/480V: At 380Vac input voltage. With rated output power.

  \*6: Not including EMI filter inrush current, less than 0.2mS.

  \*7: 3-Phase 200V models: 70~265Vac, 3-Phase 480V models: 342~528Vac. Constant load.

  \*8: From No-Load to Full-Load, constant input voltage. Measured at the sensing point in Remote Sense.

  \*9: For 10V~150V models: Measured with JETIA RC-913TC (1:1) probe. For 200~1500V models: Measured with 100:1 probe.

  \*10: The maximum voltage on the power supply terminals must not exceed the rated voltage.

  \*11: From 10% to 90% of Rated Output Voltage at rated resistive load.

  \*12: From 90% to 10% of Rated Output Voltage.

  \*13: For load voltage change, equal to the unit voltage rating, constant input voltage.

  \*14: For 10V model, the ripple is measured at 20~100% of rated output voltage and rated output current. For other models, the ripple is measured at 10~100% of rated output voltage and rated output current. B.W SHz~1MHz.

  \*15: The Constant Current programming, readback and monitoring accuracy do not include the warm-up and Load regulation thermal drift.

  \*16: Measured at the sensing point.

- \*16: Measured at the sensing point.
  \*17 Max. ambient temperature for IEEE is 40°C.
  \*18: Signal and control ports interface cables length: Less than 3m, DC output power port cables length: Less than 30m.

### **G**ENESYS<sup>™</sup> **GSP10kW SERIES SPECIFICATIONS**

OUTPUT RATING		GSP	10-1000	20-500	30-340	40-250	50-200	60-170	80-130	100-100	150-68	200-50	300-34	400-26	500-20	600-17		
1.Rated output voltage(*1)		٧	10	20	30	40	50	60	80	100	150	200	300	400	500	600		
2.Rated output current (*2)		Α	1000 (*3)	500	340	250	200	170	130	100	68	50	34	26	20	17		
3.Rated output conver		kW	10	10	10.2	10	10	10.2	10.4	10	10.2	10	10.2	10.4	10	10.2		
INPUT CHARACTERISTICS		V	10	20	30	40	50	60	80	100	150	200	300	400	500	600		
INFOT CHARACTERISTICS		V					~63Hz (Co			100	130	200	300	400	300	000		
1.Input voltage/freq. 3 phase, 3 wire + Ground (*4)							~63Hz (Cd 7~63Hz (Cd			26)								
1.iiiput voitage/ireq. 3 pilase, 3 wii	ie + Giouna ( 4)									40/460/480	)\/ac)							
	3-Phase, 200V models:		35A @ 20		ieis: 542~:	20 VaC, 47	~63HZ (CC	vers 300/4	+00/415/4	+0/400/400	JVaC)							
	3-Phase, 400V models:		18.4A @ 3															
100%1040																		
	3-Phase, 480V models:		18.4A @ 3															
3.Power Factor (Typ) 4.Efficiency (Typ) (*5) (*22)		%			, rated ou	tput powe	91	91	91	91	01	91	92	92	01	92		
, , , , , , , , , , , , , , , , , , , ,			89 (*21)		91	91	91	91	91	91	91	91	92	92	91	92		
5.Inrush current (*6) 6.AC line phase imbalance		A %	Less than	TOUA														
CONSTANT VOLTAGE MODE		V	10	20	30	40	50	60	80	100	150	200	300	400	500	600		
1.Max. Line regulation (*7)			0.01% of	rated out	out voltag	e												
2.Max. Load regulation (*8)			0.01% of	rated out	out voltag	e +5mV												
3.Ripple and noise (p-p, 20MHz) (*	*9)	mV	75	75	75	75	75	75	80	90	120	200	200	400	450	480		
4.Ripple r.m.s. 5Hz~1MHz (*9)		mV	8	10	12	12	12	12	15	15	20	45	60	80	80	100		
5.Temperature coefficient		PPM/°C	50PPM/°	C from rat	ed output	voltage, f	ollowing 3	30 minute:	s warm-up	).								
6.Temperature stability			0.01% of	rated Vou	t over 8hr	s interval f	following :	30 minute	s warm-up	. Constant	line, load	l & temp.						
7. Warm-up drift			Less than	0.05% of	rated out	out voltag	e+2mV ov	er 30 mini	utes follov	ving powe	ron.							
8.Remote sense compensation/wi	re (*10)	V	2	2	5	5	5	5	5	5	5	5	5	5	5	5		
9.Up-prog. Response time (*11)		mS	30	30	30	30	50	50	50	50	50	50	50	100	100	100		
10.Down-prog.response time:	Full load (*11)	mS	50	50	80	80	80	80	100	100	100	100	100	150	200	200		
10.Down-prog.response time:	No load (*12)	mS	300	600	800	900	950	1000	1200	1900	2000	2500	3000	4000	4000	3000		
11.Transient response time		mS	Time for	output vo	Itage to re	cover wit	hin 0.5% o	f its rated	output fo	r a load cha	nge 10~	90% of rat	ed output	t current. C	output set	-point:		
			10~100%	, Local ser	nse. Less t	han 1mS, f	or models	up to and	I including	100V. 2m	s, for mod	tels above	100V.					
12.Start up delay		Sec	Less than	7 Sec														
CONSTANT CURRENT MODE																		
1.Max. Line regulation (*7)			0.05% of	rated out	out curren	ıt.												
2.Max. Load regulation (*13)					out currer													
3.Ripple r.m.s. @ 10% rated voltage	e. B.W 5Hz~1MHz. (*14)	mA	1500	1200	600	300	200	150	100	70	45	45	15	15	12	10		
4.Ripple r.m.s. @ 100% rated voltage.		mA	1200	700	300	150	100	75	50	35	23	23	7.5	7.5	8	6		
	DITT STILL THINKE! (TITLES C)		10V~100\							nutes warn			7.13	7.13				
5.Temperature coefficient		PPM/°C								utes warm								
6.Temperature stability										. Constant		l & tempe	rature					
o.remperature stability										minutes fo								
7. Warm-up drift										tes followi								
					iaii +/-0.1.	7/0 Of Tates	u output c	unent ove	1 30 1111110	tes followi	ng power	OII.						
ANALOG PROGRAMMING AND M	ONITORING (ISOLATED																	
1.Vout voltage programming										.15% of rat								
2.lout voltage programming (*15)										.4% of rate								
3.Vout resistor programming										ity: +/-0.59								
4.lout resistor programming (*15)			0~100%, 0~5/10Kohm full scale, user selectable. Accuracy and linearity: +/-0.5% of rated lout.															
5.Output voltage monitor			0~5V or 0~10V, user selectable. Accuracy: +/-0.5%. Of rated Vout.															
6.Output current monitor (*15)			0~5V or 0	)~10V, use	r selectab	le. Accura	cy: +/-0.59	%. Of rated	lout.									
SIGNALS AND CONTROLS (ISOLA	TED FROM THE OUTPUT	)																
1. Power supply OK #1 signal			Power su	nnly outn	ut monito	r Open co	ollector O	utput On:	On Outpu	it Off: Off.	Maximum	Voltage:	30V Maxi	mum Sink	Current: 1	0mA		
2. CV/CC signal										m Voltage:								
3. LOCAL/REMOTE Analog control										ry contact					or open			
4. LOCAL/REMOTE Analog signal										On. Local:						t: 10m ∆		
5. ENABLE/DISABLE signal										or short, 2					currer			
6. INTERLOCK (ILC) control										: 0~0.6V or								
7. Programmed signals										mum sink								
														h level in	out = 5V	ositive		
0 TDICCED III (TDICCET - : :-	,		Maximu		put			ոլլաստ ո							51			
8. TRIGGER IN / TRIGGER OUT signa	als		Maximu edge tri	gger: tw=	edge trigger: tw=10us minimum. Tr,Tf=1us Maximum, Min delay between 2 pulses 1ms.  By electrical Voltage: 0~0.6V/2~30V or dry contact.													
8. TRIGGER IN / TRIGGER OUT signal 9. DAISY_IN/SO control signal	als		edge tri	gger: tw=		nimum. T	r,Tf=1us N	∕laximum	, Min del	ay betwe	en 2 puls	ses 1ms.						
	als		edge tri By electri	gger: tw= cal Voltag	je: 0~0.6V	nimum. T	r,Tf=1us N dry conta	∕laximum	, Min del	ay betwe	en 2 puls	ses 1ms.						
9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal	als		edge tri By electri	gger: tw= cal Voltag	je: 0~0.6V	nimum. T /2~30V or	r,Tf=1us N dry conta	∕laximum	, Min del	ay betwe	en 2 puls	ses 1ms.						
9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES	als		edge trig By electri 4~5V=Oh	gger: tw= cal Voltag (, 0V (500d	je: 0~0.6V ohm impe	nimum. T /2~30V or dance)=Fa	r,Tf=1us A dry conta ail	Maximum ct.	ı, Min del	ay betwe		ses 1ms.						
9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal  FUNCTIONS AND FEATURES 1. Parallel operation	als		edge tri By electri 4~5V=Oh Possible.	gger: tw= cal Voltag K, 0V (500d Up to fou	je: 0~0.6V ohm impe r (4) identi	nimum. T /2~30V or dance)=Fa	r,Tf=1us A dry conta ail	Maximum ct.	ı, Min del	ay betwe		ses 1ms.						
9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal  FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation	als		edge trig By electri 4~5V=Ok Possible. Consult v	gger: tw= cal Voltag K, 0V (500d Up to fou vith Facto	ge: 0~0.6V ohm impe r (4) identi ry	nimum. T /2~30V or dance)=Fa	r,Tf=1us M dry conta ail nits. For m	Maximum ct. ore power	, Min del	nsult with	Factory.	ses 1ms.						
9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain	als		edge trig By electri 4~5V=Ok Possible. Consult v Power su	gger: tw= cal Voltag K, 0V (500d Up to fou vith Facto pplies car	pe: 0~0.6V ohm impe r (4) identi ry n be conne	nimum. T /2~30V or dance)=Fa cal GSP ur	r,Tf=1us M dry conta ail nits. For m aisy chain	Maximum ct.  ore power	please co	nsult with	Factory.	ses 1ms.						
9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal 11. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control	als	  	edge trig By electri 4~5V=Or Possible. Consult v Power su Limits the	gger: tw= cal Voltag C, OV (500d Up to fou vith Facto pplies car e output p	pe: 0~0.6V ohm impe r (4) identi ry n be conne	nimum. T /2~30V or dance)=Fa ical GSP ur ected in Da proggran	r,Tf=1us M dry conta ail nits. For m aisy chain nmed valu	Maximum ct.  ore power to synchro e. Prograr	please co	nsult with	Factory. nd turn-o unicatior	es 1ms.	the front p					
9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain	als		Possible. Consult v Power su Limits the	gger: tw= cal Voltag C, OV (500  Up to fou with Facto pplies car e output p series res	pe: 0~0.6V ohm impe r (4) identi ry n be conne ower to a istance. R	nimum. T /2~30V or dance)=Fa ical GSP ur ected in Da proggran esistance	r,Tf=1us M dry conta ail nits. For m aisy chain nmed valu range: 1~	Aaximum ct. ore power to synchro e. Prograr 1000mΩ. F	please co	insult with	Factory.  nd turn-o unication	ff. ports or t	the front ports or the	front pan				
9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal 11. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control	als	  	Possible. Consult v Power su Limits the Emulates	gger: tw= cal Voltag X, 0V (5000  Up to fou with Facto pplies car e output p series res mable Ou	pe: 0~0.6V ohm impe r (4) identi ry n be conne power to a istance. R	nimum. T /2~30V or dance)=Fa cal GSP ur ected in Da proggran esistance ind Outpu	r,Tf=1us M dry conta ail nits. For m aisy chain nmed valu range: 1~ t fall slew	Aaximum ct. ore power to synchro e. Prograr 1000mΩ. F	please co	nsult with	Factory.  nd turn-o unication	ff. ports or t	the front ports or the	front pan		the		
9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control	als		edge trig By electri 4~5V=OH Possible. Consult v Power su Limits the Emulates Programicommun	gger: tw= cal Voltag X, 0V (5000  Up to fou with Facto pplies car e output p series res mable Ou ication po	pe: 0~0.6V ohm impe r (4) identi ry n be conne power to a istance. R tput rise a orts or the	nimum. T /2~30V or dance)=Fa cal GSP ur ected in Da proggram esistance and Outpur front pane	ir,Tf=1us M dry conta ail nits. For m aisy chain nmed valu range: 1~ t fall slew el.	Maximum ct.  ore power to synchro e. Prograr 1000mΩ. Frate. Progr	please co	insult with turn-on at the comming via the ange: 0.00	Factory.  nd turn-o unication commun 01~999.9	ff. ports or to lication po	the front ports or the	front pan c. Program	ming via			
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9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal  FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms  PROGRAMMING AND READBACK RS232/485, Optional IEEE (*19)(* 1. Vout programming accuracy (*16)	(USB, LAN, 20) Interfaces)	    V	edge trie By electri 4~5V=Oh  Possible. Consult v Power su Limits the Emulates Programic commun Profiles o  10  0.05% of	gger: tw= cal Voltag C, OV (5000  Up to fou with Facto pplies car e output p series res mable Ou ication pc f up to 10  20  rated out	pe: 0~0.6V ohm impe r (4) identi r y h be conne ower to a istance. R tput rise a orts or the 0 steps ca 30 out voltage	nimum. T /2~30V or dance)=Fa ical GSP ur ected in Da proggran esistance in d Outpur front panin n be store	r,Tf=1us M dry conta aiil  mits. For m aisy chain nmed valu range: 1~ t fall slew tel. d in 4 mer	Aaximum ct.  ore power to synchro e. Prograr 1000mΩ. F rate. Progra	r please co onize their nming via Programm 'amming r Activatio	insult with turn-on at the comm ing via the ange: 0.00	Factory.  Ind turn-o unicatior commur 01~999.9  and via the	ff. a ports or to ication po	the front ports or the	front pan c. Program ports or by	the front	panel.		
9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK RS232/485, Optional IEEE (*19)(* 1. Vout programming accuracy (*15 2. lout programming	(USB, LAN, 20) Interfaces)	    V	Possible. Consult v Power su Limits the Emulates Program Profiles o  0.05% of 0.3% of ra  Ossible to the power su  10 0.05% of 0.3% of	gger: tw- cal Voltag  , OV (500  Up to fou with Facto pplies car e output p series res mable Ou ication po f up to 10  20  rated outp	e: 0~0.6V ohm impe r (4) identi r y h be conne ower to a istance. R tput rise a rts or the 0 steps ca 30 out voltag ut current	nimum. T /2~30V or dance)=Fa cal GSP ur ected in Da proggran esistance in nd Outpu front panin n be store 40	r,Tf=1us M dry conta aiil  mits. For m aisy chain nmed valu range: 1~ t fall slew tel. d in 4 mer	Aaximum ct.  ore power to synchro e. Prograr 1000mΩ. F rate. Progra	r please co onize their nming via Programm 'amming r Activatio	insult with turn-on at the comm ing via the ange: 0.00	Factory.  Ind turn-o unicatior commur 01~999.9  and via the	ff. a ports or to ication po	the front ports or the	front pan c. Program ports or by	the front	panel.		
9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK RS232/485, Optional IEEE (*19)(* 1. Vout programming accuracy (*15 2. Lout programming accuracy (*15 3. Yout programming resolution	(USB, LAN, 20) Interfaces)		Possible. Consult v Power su Limits the Emulates Programm. Profiles o  0.05% of 0.3% of ra 0.002% o	Up to fou with Facto pplies care output p series resmale Outcation pc fup to 10 20 rated output pt ated output ated output pt	pe: 0~0.6V/chm impe  r (4) identify ty a be connected to a istance. Reput rise a contract of the contract of t	cal GSP ur cal GSP ur cat GSP ur dected in Da proggran esistance in d Outpu front pan n be store 40 e	r,Tf=1us M dry conta aiil  mits. For m aisy chain nmed valu range: 1~ t fall slew tel. d in 4 mer	Aaximum ct.  ore power to synchro e. Prograr 1000mΩ. F rate. Progra	r please co onize their nming via Programm 'amming r Activatio	insult with turn-on at the comm ing via the ange: 0.00	Factory.  Ind turn-o unicatior commur 01~999.9  and via the	ff. a ports or to ication po	the front ports or the	front pan c. Program ports or by	the front	panel.		
9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK RS232/485, Optional IEEE (*19)(* 1. Vout programming accuracy (*16 2. Iout programming resolution 4. Iout programming resolution 4. Iout programming resolution	(USB, LAN, 20) Interfaces)		edge tris By electri 4~5V=Oh  Possible. Consult v Power su Limits the Emulates Program commun Profiles o  10  0.05% of 0.3% of r 0.002% o 0.002% o	gger: tw- cal Voltag X, OV (500  Up to fou with Facto pplies car e output p series res mable Ou ication pc f up to 10  20 rated outp f rated out f rated out f rated ou	e: 0~0.6V chm impe  r (4) identi ry a be conne cower to a istance. R tput rise a rts or the 0 steps ca  30  put voltag ut current tput volta tput current	cal GSP uncerted in Day proggram in d Output front pane n be store  40 ee	r,Tf=1us M dry conta aiil  mits. For m aisy chain nmed valu range: 1~ t fall slew tel. d in 4 mer	Aaximum ct.  ore power to synchro e. Prograr 1000mΩ. F rate. Progra	r please co onize their nming via Programm 'amming r Activatio	insult with turn-on at the comm ing via the ange: 0.00	Factory.  Ind turn-o unicatior commur 01~999.9  and via the	ff. a ports or to ication po	the front ports or the	front pan c. Program ports or by	the front	panel.		
9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK RS232/485, Optional IEEE (*19)(* 1. Vout programming accuracy (*16 2. lout programming resolution 4. lout programming resolution 4. lout programming resolution 5. Vout readback accuracy	(USB, LAN, 20) Interfaces)		edge tris By electri 4~5V=Oh  Possible. Consult v Power su Limits the Emulates Programic commun Profiles o  0.05% of 0.3% of ra 0.002% o 0.002% o 0.002% o 0.002% o	gger: tw- cal Voltag (, oV (500c  Up to fou with Facto pplies car e output p series res mable Ou ication pc fup to 10  20 rated outp frated out frated out rated out	pe: 0~0.6V phm impe  r (4) identi ry p be conne power to a istance. R tput rise a rts or the 0 steps ca  30 put voltag ut current tput voltat tput curre put voltag	nimum. T  /2~30V or  dance)=Fa  ccal GSP ur  ccted in Da  proggran  esistance  nd Outpu  front pan  n be store  40  e  ge	r,Tf=1us M dry conta aiil  mits. For m aisy chain nmed valu range: 1~ t fall slew tel. d in 4 mer	Aaximum ct.  ore power to synchro e. Prograr 1000mΩ. F rate. Progra	r please co onize their nming via Programm 'amming r Activatio	insult with turn-on at the comm ing via the ange: 0.00	Factory.  Ind turn-o unicatior commur 01~999.9  and via the	ff. a ports or to ication po	the front ports or the	front pan c. Program ports or by	the front	panel.		
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### **G**ENESYS<sup>™</sup> **GSP15kW SERIES SPECIFICATIONS**

OUTPUT RATING		10-1500	20-750	30-510	40-375	50-300	60-255	80-195	100-150	150-102	200-75	300-51	400-39	500-30	600-25.5
1.Rated output voltage(*1)	GSP V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
2.Rated output current (*2)	A	1500 (*3)	750	510	375	300	255	195	150	102	75	51	39	30	25.5
3.Rated output power	kW	15	15	15.3	15	15	15.3	15.6	15	15.3	15	15.3	15.6	15	15.3
INPUT CHARACTERISTICS		10	20	30	40	50	60	80	100	150	200	300	400	500	600
		3-Phase, 2	00V mode	els: 170~26	5Vac, 47~	63Hz (Cov	vers 200/2	230Vac)							
1.Input voltage/freq. 3 phase, 3 wire + Ground (*4)		3-Phase, 4													
		3-Phase, 4		els: 342~52	28Vac, 47~	-63Hz (Co	vers 380/4	100/415/44	0/460/48	0Vac)					
2. Maximum Input current at 3-Phase, 200V n		52.5A @ 20													
100% load 3-Pridse, 400V ii		27.6A @ 38													
3-Phase, 480V n	nodels:	27.6A @ 38 0.94 @ 200		rated outr	out nower										
4.Efficiency (Typ) (*5) (*22)	%	89 (*21)	90	91	91	91	91	91	91	91	91	92	92	91	92
5.Inrush current (*6)	A	Less than													
6.AC line phase imbalance	%	< 5%													
CONSTANT VOLTAGE MODE	V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Max. Line regulation (*7)		0.01% of ra				30	00	00	100	150	200	300	1 400	300	000
2.Max. Load regulation (*8)		0.01% of ra					-				-		-		
3.Ripple and noise (p-p, 20MHz) (*9)	mV	75	75	75	75	75	75	80	90	120	200	200	400	450	480
4.Ripple r.m.s. 5Hz~1MHz (*9)	mV	8	10	12	12	12	12	15	15	20	45	60	80	80	100
5.Temperature coefficient	PPM/°C									20	7.5	00	00	00	100
6.Temperature stability		0.01% of ra								t line load	1 & temp				
7. Warm-up drift								ites follow			a ca terripi				
8.Remote sense compensation/wire (*10)	V	2	2	5	5	5	5	5	5	5	5	5	5	5	5
9.Up-prog. Response time (*11)	mS	30	30	30	30	50	50	50	50	50	50	50	100	100	100
Full load (*		50	50	80	80	80	80	100	100	100	100	100	150	200	200
10.Down-prog.response time: No load (*1		300	600	800	900	950	1000	1200	1900	2000	2500	3000	4000	4000	3000
11.Transient response time	mS	Time for o	utput volt	tage to red	over with	in 0.5% of	its rated	output for	a load ch	ange 10~9	90% of rat	ed outpu	t current. (	Output se	t-point:
11. Italisient response time		1		se. Less th	an 1mS, fo	or models	up to and	lincluding	100V. 2m	S, for mod	lels above	100V.			
12Start up delay	Sec	Less than 7	7 Sec												
CONSTANT CURRENT MODE	V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Max. Line regulation (*7)		0.05% of ra		ut current											
2.Max. Load regulation (*13)		0.08% of r													
3.Ripple r.m.s. @ 10% rated voltage B.W 5Hz~1MH	lz. (*14) mA	2000	1200	600	300	250	180	100	70	45	45	15	15	12	10
4.Ripple r.m.s. @ 100% rated voltage. B.W 5Hz~1MHz. (1	TA 25°C) mA	1200	700	300	150	130	90	60	35	23	23	7.5	7.5	8	6
F.T	DDA4/9C	10V~100V	100PPI	M/°C from	rated ou	tput curre	nt, follow	ing 30 min	utes warr	n-up.					
5.Temperature coefficient	PPM/°C	150V~600						ng 30 minu							
6.Temperature stability		0.01% of ra	ated lout o	over 8hrs.	interval fo	llowing 3	0 minutes	warm-up	. Constan	t line, load	& tempe	rature.			
7 Warm up drift		10V~100V	model: Le	ess than +/	-0.25% of	rated out	put curre	nt over 30	minutes f	ollowing	power on.				
7. Warm-up drift		150V~600	V: Less tha	an +/-0.159	% of rated	output cu	ırrent ove	r 30 minut	es follow	ing power	on.				
ANALOG PROGRAMMING AND MONITORING (ISC	OLATED FROM 1	HE OUTPU	T)												
ANALOG PROGRAMMING AND MONITORING (ISO  1. Vout voltage programming	OLATED FROM 1			10V. user	selectable	. Accuracy	v and line	aritv: +/-0.	15% of rat	ed Vout.					
1. Vout voltage programming		0~100%, 0	~5V or 0~												
1.Vout voltage programming     2.lout voltage programming (*15)		0~100%, 0 0~100%, 0	)~5V or 0~ )~5V or 0~	10V, user	selectable	. Accurac	y and line	arity: +/-0.	4% of rate	ed lout.	Vout.		-		
Nout voltage programming     Ilout voltage programming (*15)     Nout resistor programming		0~100%, 0 0~100%, 0 0~100%, 0	0~5V or 0~ 0~5V or 0~ 0~5/10Koh	10V, user : im full sca	selectable le, user se	e. Accuracy lectable. <i>I</i>	y and line Accuracy a	arity: +/-0. and lineari	4% of rate ty: +/-0.59	ed lout. % of rated					
1.Vout voltage programming     2.lout voltage programming (*15)		0~100%, 0 0~100%, 0	0~5V or 0~ 0~5V or 0~ 0~5/10Koh 0~5/10Koh	·10V, user : im full sca im full sca	selectable le, user se le, user se	e. Accuracy lectable. <i>I</i> lectable. <i>I</i>	y and line Accuracy a Accuracy a	arity: +/-0. and lineari and lineari	4% of rate ty: +/-0.59	ed lout. % of rated					
1.Vout voltage programming 2.lout voltage programming (*15) 3.Vout resistor programming 4.lout resistor programming (*15)		0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0	0~5V or 0~ 0~5V or 0~ 0~5/10Koh 0~5/10Koh ~10V, user	10V, user: im full sca im full sca selectable	selectable le, user se le, user se e. Accurac	e. Accuracy lectable. A lectable. A sy: +/-0.5%	y and line Accuracy a Accuracy a of rated	arity: +/-0. and lineari and lineari Vout.	4% of rate ty: +/-0.59	ed lout. % of rated					
1.Vout voltage programming 2.lout voltage programming (*15) 3.Vout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor (*23) 6.Output current monitor (*15) (*23)		0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~5V or 0	0~5V or 0~ 0~5V or 0~ 0~5/10Koh 0~5/10Koh ~10V, user	10V, user: im full sca im full sca selectable	selectable le, user se le, user se e. Accurac	e. Accuracy lectable. A lectable. A sy: +/-0.5%	y and line Accuracy a Accuracy a of rated	arity: +/-0. and lineari and lineari Vout.	4% of rate ty: +/-0.59	ed lout. % of rated					
1.Vout voltage programming 2.lout voltage programming (*15) 3.Vout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor (*23) 6.Output current monitor (*15) (*23)	     OUTPUT)	0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~5V or 0~	0~5V or 0~ 0~5V or 0~ 0~5/10Koh 0~5/10Koh ~10V, user ~10V, user	·10V, user : im full sca im full sca selectable selectable	selectable le, user se le, user se e. Accurac e. Accurac	e. Accuracy lectable. <i>I</i> lectable. <i>I</i> :y: +/-0.5% :y: +/-0.5%	y and line Accuracy a Accuracy a 6 of rated 6. of rated	arity: +/-0. and lineari and lineari Vout. Iout.	4% of rate ty: +/-0.5° ty: +/-0.5°	ed lout. % of rated % of rated	lout.	20V Mavi	mum Sink	Currente	10mA
1.Vout voltage programming 2.lout voltage programming (*15) 3.Vout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor (*23) 6.Output voltage monitor (*15) (*23)  SIGNALS AND CONTROLS (ISOLATED FROM THE (1). Power supply OK #1 signal	OUTPUT)	0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~5V or 0~	0~5V or 0~ 0~5V or 0~ 0~5/10Koh 0~5/10Koh ~10V, user ~10V, user	in full sca im full sca im full sca selectable selectable selectable	selectable le, user se le, user se e. Accurac e. Accurac e. Open co	e. Accuracy lectable. A lectable. A cy: +/-0.5% cy: +/-0.5%	y and line Accuracy a Accuracy a 6 of rated 6. of rated atput On:	arity: +/-0. and lineari and lineari Vout. lout.	4% of rate ty: +/-0.5° ty: +/-0.5° t Off: Off.	ed lout. % of rated % of rated Maximum	lout.			Current:	10mA.
1.Vout voltage programming 2.lout voltage programming (*15) 3.Vout resistor programming 4.lout resistor programming 5.Output voltage monitor (*23) 6.Output current monitor (*15) (*23)  SIGNALS AND CONTROLS (ISOLATED FROM THE C	OUTPUT)	0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~5V or 0~	0~5V or 0~ 0~5V or 0~ 0~5/10Koh 0~5/10Koh ~10V, user ~10V, user oply outpu	am full sca am full sca am full sca selectable selectable at monitor	selectable le, user se le, user se e. Accurac e. Accurac . Open co rr. CC mod	e. Accuracy lectable. A lectable. A cy: +/-0.5% cy: +/-0.5% llector. Ou e: On. CV	y and line Accuracy a Accuracy a 6 of rated 6. of rated atput On: 0 mode: Of	arity: +/-0. and lineari and lineari Vout. Iout. On. Outpu f. Maximur	4% of rate ty: +/-0.5° ty: +/-0.5° t Off: Off. n Voltage	ed lout. % of rated % of rated Maximum : 30V, Max	out.  Noltage:	k Current:	:10mA.		10mA.
1.Vout voltage programming 2.lout voltage programming (*15) 3.Vout resistor programming 4.lout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor (*23) 6.Output current monitor (*15) (*23)  SIGNALS AND CONTROLS (ISOLATED FROM THE (1) Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control	OUTPUT)	0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~5V or 0~ 0~5V or 0~ Power sup CV/CC Mo Enable/Di:	0~5V or 0~ 0~5V or 0~ 0~5/10Koh 0~5/10Koh ~10V, user ~10V, user oply outpu nitor. Ope sable anal	an full sca am full sca selectable selectable at monitor on collector	selectable le, user se le, user se e. Accurac e. Accurac . Open co rr. CC mod	e. Accuracy lectable. A lectable. A cy: +/-0.5% cy: +/-0.5% llector. Ou le: On. CV	y and line Accuracy a Accuracy a of of rated of of rated atput On: 0 mode: Off	arity: +/-0. and lineari and lineari Vout. lout. On. Outpu f. Maximur signal or d	4% of rate ty: +/-0.5° ty: +/-0.5° t Off: Off. m Voltage ry contact	ed lout. % of rated % of rated Maximum : 30V, Max	N Voltage:	k Current: r short. Lo	: 10mA. ocal: 2~30V	or open.	
1.Vout voltage programming 2.lout voltage programming (*15) 3.Vout resistor programming 4.lout resistor programming 5.Output voltage monitor (*23) 6.Output current monitor (*15) (*23)  SIGNALS AND CONTROLS (ISOLATED FROM THE C		0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~5V or 0~	1)~5V or 0~ 2)~5V or 0~ 2)~5/10Koh 2)~5/10Koh 2)~5/10Koh 2)~5/10Koh 2)~10V, user 2)~10V, user 2)~10V, user 2)~10V, user 3)~10V, user 3)~10V, user 4)~10V, user 4)	and full sca selectable selectable at monitor of progra g control r	selectable le, user se le, user se e. Accurac e. Accurac . Open co r. CC mod mming co	e. Accuracy lectable. A lectable. A lectable. A ly: +/-0.5% lector. Ou lector. Ou lector. Ou lector. Ou lector. Oper	y and line Accuracy a Accuracy a 6 of rated 6 of rated ttput On: 0 mode: Off electrical s	arity: +/-0. and lineari and lineari Vout. lout. On. Outpu f. Maximur signal or d r. Remote:	4% of rate ty: +/-0.5° ty: +/-0.5° t Off: Off. m Voltage ry contact On. Local:	Maximum: 30V, Maxi. Remote: Off. Maxim	N Voltage: imum Sin 0~0.6V or mum Volta	k Current: r short. Lo age: 30V, N	: 10mA. ocal: 2~30V Maximum S	or open.	
1.Vout voltage programming 2.lout voltage programming (*15) 3.Vout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor (*23) 6.Output current monitor (*15) (*23)  SIGNALS AND CONTROLS (ISOLATED FROM THE (1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal	OUTPUT)	0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~5V or 0- 0~5V or 0- Power sup CV/CC Mo Enable/Di:	>5V or 0~ >5V or 0~ >5V or 0~ >5/10Koh >5/10Koh >10V, user >10V, user >10V, user >10V, user >10V, user >10V, user >10V, user >10V, user	an full sca am full sca am full sca selectable selectable at monitor on collecto og progra g control r utput by e	selectable le, user se le, user se le, user se e. Accurac e. Accurac or. CC mod imming co monitor si electrical se	e. Accuracy lectable. I lectable. I lectable. I ly: +/-0.5% ry: +/-0.5% llector. Ou e: On. CV ontrol by e gnal. Oper	y and line Accuracy a Accuracy a of rated of of rated atput On: mode: Off electrical s or collector ry contact	arity: +/-0. and lineari and lineari Vout. lout.  On. Outpu f. Maximur signal or d r. Remote: t. 0~0.6V c	4% of rate ty: +/-0.5° ty: +/-0.5° t Off: Off. n Voltage ry contact On. Local: or short, 2°	ed lout. % of rated % of rated Maximum : 30V, Max :. Remote: Off. Maxin	N Voltage: imum Sin 0~0.6V o mum Volta pen. User	k Current: r short. Lo age: 30V, N selectable	: 10mA. ocal: 2~30V Maximum S e logic.	or open.	
1.Vout voltage programming 2.lout voltage programming (*15) 3.Vout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor (*23) 6.Output current monitor (*15) (*23)  SIGNALS AND CONTROLS (ISOLATED FROM THE 1 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE Signal	OUTPUT)	0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~5V or 0 0~5V or 0 CV/CC Mo Enable/Di analog pro	>5V or 0~ >5V or 0~ >5V or 0~ >5/10Koh >5/10Koh >10V, user >10V, u	and full scale in full scale i	selectable le, user se le, user se le, user se le. Accurac le. Accurac le. Accurac le. Open co le. CC mod le.	e. Accuracy lectable. A lectable. A cy: +/-0.5% yy: +/-0.5% llector. Ou e: On. CV ontrol by e gnal. Oper signal or d	y and line Accuracy a Accuracy a for atted for of rated f	arity: +/-0. and lineari and lineari vout. lout.  On. Outpu f. Maximur signal or d r. Remote: t. 0~0.6V c t. Remote:	4% of rate ty: +/-0.5° ty: +/-0.5° t Off: Off. n Voltage ry contact On. Local: or short, 2· 0~0.6V o	Maximum: 30V, Maxir. Remote: Off. Maxir value of salv.	N Voltage: imum Sin 0~0.6V or mum Volta pen. User ical: 2~30V	k Current: r short. Lo age: 30V, N selectable / or open.	: 10mA. ocal: 2~30V Maximum S e logic.	or open.	
1.Vout voltage programming 2.lout voltage programming (*15) 3.Vout resistor programming 4.lout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor (*23) 6.Output current monitor (*15) (*23)  SIGNALS AND CONTROLS (ISOLATED FROM THE 1 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE Signal 6. INTERLOCK (ILC) control 7. Programmed signals	OUTPUT)	0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~5V or 0- 0~5V or 0- 0~5V or 0- Enable/Di analog pro Enable/Di Two open Maximum	2-5V or 0~ 2-5V or 0~ 2-5V or 0~ 2-5/10Koh 2-5/10Koh 2-10V, user 2-10V, user	an full sca an full sca an electable selectable at monitor an collecto log progra g control r autput by e grammable input volt	selectable le, user se le, user se le, user se e. Accurac e. Accurac c. Open co rr. CC mod monitor si electrical se lectrical se le signals. age = 0.8	e. Accuracy lectable. A lectable. A cy: +/-0.5% llector. Ou e: On. CV opentrol by e gnal. Oper signal or d Maximum V, Minimur	y and line Accuracy & Accuracy & of rated 6. of rated mode: Off electrical s n collector ry contac ry contage n voltage n high lev	arity: +/-0. and lineari and lineari vout. lout.  On. Outpu f. Maximur signal or d r. Remote: t. 0~0.60 t. Remote: 25V, Maxir rel input vi	4% of rate ty: +/-0.5° ty: +/-0.5° ty: +/-0.5° t Off: Off. n Voltage ry contact On. Local: or short, 2: 0~0.6V o num sink.	Maximum: 30V, Maxir. Remote: Off. Maxir value of salv. Salv. Maxir. Remote: Off. Maxir value of salv. Locurrent 10	n Voltage: imum Sin 0~0.6V or mum Volta pen. User ical: 2~30\ 100mA (Shu	k Current: r short. Lo age: 30V, N selectable / or open. unted by 2	: 10mA. ocal: 2~30V Maximum S e logic. :7V zener)	or open. iink Curre	nt: 10mA.
1.Vout voltage programming 2.lout voltage programming (*15) 3.Vout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor (*23) 6.Output voltage monitor (*23) 6.Output current monitor (*15) (*23)  SIGNALS AND CONTROLS (ISOLATED FROM THE 1 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE Signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals	OUTPUT)	0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~5V or 0- 0~5V or 0- Enable/Di Enable/Di Two open Maximum tw=10us n	2-5V or 0~ 2-5V or 0~ 2-5V or 0~ 2-5/10Koh 2-5/10Koh 2-10V, user 2-10V, user	an full sca selectable selectable at monitor on collector og progra g control r utput by e grammab input volt Tr,Tf=1us I	selectable le, user se le, user se e. Accurac e. Accurac c. Open co r. CC mod monitor si electrical s le signals. age = 0.8' Maximum	e. Accuracy lectable. / lectab	y and line Accuracy & Accuracy & of rated of of rated the of rated reput On: Of prode:	arity: +/-0. and lineari and lineari vout. lout.  On. Outpu f. Maximur signal or d r. Remote: t. 0~0.60 t. Remote: 25V, Maxir rel input vi	4% of rate ty: +/-0.5° ty: +/-0.5° ty: +/-0.5° t Off: Off. n Voltage ry contact On. Local: or short, 2: 0~0.6V o num sink.	Maximum: 30V, Maxir. Remote: Off. Maxir value of salv. Salv. Maxir. Remote: Off. Maxir value of salv. Locurrent 10	n Voltage: imum Sin 0~0.6V or mum Volta pen. User ical: 2~30\ 100mA (Shu	k Current: r short. Lo age: 30V, N selectable / or open. unted by 2	: 10mA. ocal: 2~30V Maximum S e logic. :7V zener)	or open. iink Curre	nt: 10mA.
1.Vout voltage programming 2.lout voltage programming (*15) 3.Vout resistor programming 4.lout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor (*23) 6.Output current monitor (*15) (*23)  SIGNALS AND CONTROLS (ISOLATED FROM THE 1 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE Signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal	OUTPUT)	0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~5V or 0 0~5V or 0 0~5V or 0 Enable/Dianalog pro Enable/Dianalog pro Enable/Dianalog pro Enable/Dianalog pro Maximum tw=10us n By electric	25V or 0~ 25V or 0~ 25V or 0~ 25/10Koh 25/10Koh 210V, user 210V, user 20V, user	an full sca selectable at monitor no collecto og progra g control r uutput by e grammable input volt Tr,Tf=1us I	selectable le, user se le, user se le, user se e. Accurac e. Accurac . Open co or. CC mod imming co monitor si electrical se le signals. age = 0.8° Maximum 2~30V or or	e. Accuracy lectable. / lectab	y and line Accuracy & Accuracy & of rated of of rated the of rated reput On: Of prode:	arity: +/-0. and lineari and lineari vout. lout.  On. Outpu f. Maximur signal or d r. Remote: t. 0~0.60 t. Remote: 25V, Maxir rel input vi	4% of rate ty: +/-0.5° ty: +/-0.5° ty: +/-0.5° t Off: Off. n Voltage ry contact On. Local: or short, 2: 0~0.6V o num sink.	Maximum: 30V, Maxir. Remote: Off. Maxir value of salv. Salv. Maxir. Remote: Off. Maxir value of salv. Locurrent 10	n Voltage: imum Sin 0~0.6V or mum Volta pen. User ical: 2~30\ 100mA (Shu	k Current: r short. Lo age: 30V, N selectable / or open. unted by 2	: 10mA. ocal: 2~30V Maximum S e logic. :7V zener)	or open. iink Curre	nt: 10mA.
1.Vout voltage programming 2.lout voltage programming (*15) 3.Vout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor (*23) 6.Output voltage monitor (*23) 6.Output current monitor (*15) (*23)  SIGNALS AND CONTROLS (ISOLATED FROM THE 1 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE Signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals	OUTPUT)	0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~5V or 0- 0~5V or 0- Enable/Di Enable/Di Two open Maximum tw=10us n	25V or 0~ 25V or 0~ 25V or 0~ 25/10Koh 25/10Koh 210V, user 210V, user 20V, user	an full sca selectable at monitor no collecto og progra g control r uutput by e grammable input volt Tr,Tf=1us I	selectable le, user se le, user se le, user se e. Accurac e. Accurac . Open co or. CC mod imming co monitor si electrical se le signals. age = 0.8° Maximum 2~30V or or	e. Accuracy lectable. / lectab	y and line Accuracy & Accuracy & of rated of of rated the of rated reput On: Of prode:	arity: +/-0. and lineari and lineari vout. lout.  On. Outpu f. Maximur signal or d r. Remote: t. 0~0.60 t. Remote: 25V, Maxir rel input vi	4% of rate ty: +/-0.5° ty: +/-0.5° ty: +/-0.5° t Off: Off. n Voltage ry contact On. Local: or short, 2: 0~0.6V o num sink.	Maximum: 30V, Maxir. Remote: Off. Maxir value of salv. Salv. Maxir. Remote: Off. Maxir value of salv. Locurrent 10	n Voltage: imum Sin 0~0.6V or mum Volta pen. User ical: 2~30\ 100mA (Shu	k Current: r short. Lo age: 30V, N selectable / or open. unted by 2	: 10mA. ocal: 2~30V Maximum S e logic. :7V zener)	or open. iink Curre	nt: 10mA.
1.Vout voltage programming 2.lout voltage programming (*15) 3.Vout resistor programming 4.lout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor (*23) 6.Output current monitor (*15) (*23)  SIGNALS AND CONTROLS (ISOLATED FROM THE 1.) 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE Signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal	OUTPUT)	0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~5V or 0 0~5V or 0 0~5V or 0 Enable/Dianalog pro Enable/Dianalog pro Enable/Dianalog pro Enable/Dianalog pro Maximum tw=10us n By electric	25V or 0~ 25V or 0~ 25V or 0~ 25/10Koh 25/10Koh 210V, user 210V, user 20V, user	an full sca selectable at monitor no collecto og progra g control r uutput by e grammable input volt Tr,Tf=1us I	selectable le, user se le, user se le, user se e. Accurac e. Accurac . Open co or. CC mod imming co monitor si electrical se le signals. age = 0.8° Maximum 2~30V or or	e. Accuracy lectable. / lectab	y and line Accuracy & Accuracy & of rated of of rated the of rated reput On: Of prode:	arity: +/-0. and lineari and lineari vout. lout.  On. Outpu f. Maximur signal or d r. Remote: t. 0~0.60 t. Remote: 25V, Maxir rel input vi	4% of rate ty: +/-0.5° ty: +/-0.5° ty: +/-0.5° t Off: Off. n Voltage ry contact On. Local: or short, 2: 0~0.6V o num sink.	Maximum: 30V, Maxir. Remote: Off. Maxir value of salv. Salv. Maxir. Remote: Off. Maxir value of salv. Locurrent 10	n Voltage: imum Sin 0~0.6V or mum Volta pen. User ical: 2~30\ 100mA (Shu	k Current: r short. Lo age: 30V, N selectable / or open. unted by 2	: 10mA. ocal: 2~30V Maximum S e logic. :7V zener)	or open. iink Curre	nt: 10mA.
1.Vout voltage programming 2.lout voltage programming (*15) 3.Vout resistor programming 4.lout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor (*23) 6.Output current monitor (*15) (*23)  SIGNALS AND CONTROLS (ISOLATED FROM THE (1) 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE Signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal	OUTPUT)	0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~5V or 0~  Power sup CV/CC Mo Enable/Di Enable/Di Two open Maximum tw=10us n By electric 4~5V=OK,	~5V or 0~ 0~5V or 0~ 0	and full scales and full scales are full scale	selectable le, user se le, user se le, user se e. Accurac e. Accurac . Open co or. CC mod mming co monitor si electrical se lectrical se lestrical se sepands. age = 0.8 Maximum 2~30V or c ance)=Fa	e. Accuracy lectable. / lector. Ou e: On. CV ontrol by e gnal. Oper signal or d Maximum /, Minimum /, Mini dela dry contac il	y and line Accuracy a Accuracy a Accuracy a of rated b. of rated the put On: mode: Off electrical n collector ry contac ry contac n high lev y between	arity: +/-0. and lineari and lineari vout. lout. On. Outpu f. Maximur signal or d r. Remote: t. 0~0.6V o t. Remote: 25V, Maxir vel input ven 2 pulses	4% of rate ty: +/-0.5° ty: +/-0.5° ty: +/-0.5° ty: +/-0.5° ty: +/-0.5° ty: +/-0.5° n voltage ry contact On. Local: or short, 2- 0~0.6V o num sink bltage = 2 lms.	Maximum: 30V, Maxi. Remote: Off. Maxir ~30V or op: short. Lo current 10.55V, Maxir	n Voltage: imum Sin 0~0.6V or mum Volta pen. User ical: 2~30\ 100mA (Shu	k Current: r short. Lo age: 30V, N selectable / or open. unted by 2	: 10mA. ocal: 2~30V Maximum S e logic. :7V zener)	or open. iink Curre	nt: 10mA.
1.Vout voltage programming 2.lout voltage programming (*15) 3.Vout resistor programming 4.lout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor (*23) 6.Output current monitor (*15) (*23)  SIGNALS AND CONTROLS (ISOLATED FROM THE 1.) 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE Signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal	OUTPUT)	0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~5V or 0 0~5V or 0 0~5V or 0 Enable/Dianalog pro Enable/Dianalog pro Enable/Dianalog pro Enable/Dianalog pro Maximum tw=10us n By electric	~5V or 0~ 0~5V or 0~ 0	and the second s	selectable le, user se le, user se le, user se e. Accurac e. Accurac . Open co or. CC mod mming co monitor si electrical se lectrical se lestrical se sepands. age = 0.8 Maximum 2~30V or c ance)=Fa	e. Accuracy lectable. / lector. Ou e: On. CV ontrol by e gnal. Oper signal or d Maximum /, Minimum /, Mini dela dry contac il	y and line Accuracy a Accuracy a Accuracy a of rated b. of rated the put On: mode: Off electrical n collector ry contac ry contac n high lev y between	arity: +/-0. and lineari and lineari vout. lout. On. Outpu f. Maximur signal or d r. Remote: t. 0~0.6V o t. Remote: 25V, Maxir vel input ven 2 pulses	4% of rate ty: +/-0.5° ty: +/-0.5° ty: +/-0.5° ty: +/-0.5° ty: +/-0.5° ty: +/-0.5° n voltage ry contact On. Local: or short, 2- 0~0.6V o num sink bltage = 2 lms.	Maximum: 30V, Maxi. Remote: Off. Maxir ~30V or op: short. Lo current 10.55V, Maxir	n Voltage: imum Sin 0~0.6V or mum Volta pen. User ical: 2~30\ 100mA (Shu	k Current: r short. Lo age: 30V, N selectable / or open. unted by 2	: 10mA. ocal: 2~30V Maximum S e logic. :7V zener)	or open. iink Curre	nt: 10mA.
1.Vout voltage programming 2.lout voltage programming (*15) 3.Vout resistor programming (*15) 5.Output voltage monitor (*23) 6.Output current monitor (*15) (*23)  SIGNALS AND CONTROLS (ISOLATED FROM THE (*1.5) (*2.5)  SIGNALS AND CONTROLS (ISOLATED FROM THE (*1.5) (*2	OUTPUT)	0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~5V or 0- 0~5V or 0- 0~5V or 0- 0—5V or 0- 0—5V or 0- 0—6V or 0- 0—700%, 0	2-SV or 0-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2	violution in the second of the	selectable le, user se le, user se le, user se le, user se e. Accurac e. Accurac . Open co or. CC mod imming co nonitor si electrical selectrical selectrical selectrical selectrical selectrical selectrical selectrical se	e. Accuracy lectable. / lectab	y and line Accuracy a Accuracy a Accuracy a of of rated of of rated atput On: atput On	arity: +/-0. and linearia and linearia Vout. lout.  On. Outpu f. Maximurs signal or d f. Remote: 25V, Maximurs rel input vv n 2 pulses	4% of rate ty: +/-0.5° ty: +/-0.6° ty: +/-0.5° ty: +/-	Maximum: 30V, Maximum: 30V, Maximum: 30V, Maximum: 30V, Maximum: 30V, Maximum: 50ff. Maxim: 50ff	n Voltage: imum Sin 0~0.6V on mum Volta pen. User ical: 2~30\ 00mA (Shu num high	k Current: r short. Lo age: 30V, N selectable / or open. unted by 2	: 10mA. ocal: 2~30V Maximum S e logic. :7V zener)	or open. iink Curre	nt: 10mA.
1.Vout voltage programming 2.lout voltage programming (*15) 3.Vout resistor programming (*15) 5.Output voltage monitor (*23) 6.Output voltage monitor (*23) 6.Output current monitor (*15) (*23)  SIGNALS AND CONTROLS (ISOLATED FROM THE 1 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE Signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 10. DAISY_IN/SO control signal 11. DAISY_OUT/PS_OK #2 signal  FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation	OUTPUT)	0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~5V or 0- 0~5V or 0- 0~5V or 0- Enable/Di analog pre Enable/Di Two open Maximum tw=10us n By electric 4~5V=OK,	~5V or 0~  >5V or 0~  >5V or 0~  >5/10Koh  >5/10Koh  >10V, user  10V, user  10V, user  able PS o  sable PS o  drain prog  low level  ninimum.  al Voltage  0 V (500ol  Up to four  tith Factory  poples can	at monitor no collecto og prograg gontrol ruttput by e uttput by e	electrical selectrical selectr	e. Accuracy lectable. I lectab	y and line Accuracy a Accuracy a Accuracy a Go frated Go of rated	arity: +/-0. and linearia and linearia Vout. lout.  On. Outpu f. Maximurs signal or d f. Remote: 25V, Maximurs rel input vv n 2 pulses	4% of rate ty: +/-0.5° ty: +/-0.5° ty: +/-0.5° t Off: Off. n Voltage ry contact On. Local: or short, 2: 0~0.6V o num sink oltage = 2 lms.	Maximum: 30V, Maxic. Remote: 00ff. Maximum: 30V or op: short. Locurrent 10.55V, Maximum: 55V, Maximu	n Voltage: immum Sin 0~0.6V on mum Volta pen. User cal: 2~30V 00mA (Shu num high	k Current: r short. Lo age: 30V, M selectable / or open. unted by 2 level inpu	: 10mA. ocal: 2~30V Maximum S e logic. i7V zener) ut = 5V pos	or open. iink Curre	nt: 10mA.
1.Vout voltage programming 2.lout voltage programming (*15) 3.Vout resistor programming (*15) 4.lout resistor programming (*15) 5.Output voltage monitor (*23) 6.Output voltage monitor (*23) 6.Output current monitor (*15) (*23)  SIGNALS AND CONTROLS (ISOLATED FROM THE (1) 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE Signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal  FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain	OUTPUT)	0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~5V or 0- 0~5V or 0- 0~5V or 0- Enable/Di analog pre Enable/Di Two open Maximum tw=10us n By electric 4~5V=OK,	~5V or 0~  >-5V or 0~  >-5V or 0~  >-5/10Koh  >-5/10Koh  >-10V, user  -10V, us	at monitor in collector of program full scales selectable selectab	electrical selectrical selectr	e. Accuracy lectable. I lectab	y and line Accuracy a Accuracy and	arity: +/-0. and linearia and linearia Vout. lout. On. Outpu f. Maximur signal or d r. Remote: t. 0~0.6V c t. Remote: 25V, Maximur sel input vm n 2 pulses please co- onize their nming via	4% of rate ty: +/-0.5° ty: -/-0.6° ty: -/-	Maximum: 30V, Max. Remote: Off. Maximum: 30V, Max. Remote: Off. Maximum: 30V off. Maximum: Nemote: Off. Maximum: Off. Nemote: Off	Noltage: imum Sin 0~0.6V o num Volta pen. User ical: 2~30 00mA (Shu num high	k Current: r short. Lo age: 30V, M selectable / or open. unted by 2 level inpu	: 10mA. scal: 2~30v Maximum S e logic. :7V zener) ut = 5V pos	or open.	nt: 10mA.
1.Vout voltage programming 2.lout voltage programming (*15) 3.Vout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor (*23) 6.Output voltage monitor (*23) 6.Output current monitor (*15) (*23)  SIGNALS AND CONTROLS (ISOLATED FROM THE 1 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE Signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal  FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control	OUTPUT)	0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~5V or 0-  Power sup CV/CC Mo Enable/Di analog pre Enable/Di Two open Maximum tw=10us n By electric 4~5V=OK,  Possible, U Consult w Power sup Limits the Emulates : Programm	2-SV or 0-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2	-10V, user : m full sca im full sca im full sca is selectable sele	electable le, user se le, Accurac  . Open co r. CC mod mming co monitor sis electrical se lectrical	e. Accuracy lectable. I lectab	y and line Accuracy a	arity: +/-0. and lineari and lineari Vout. lout. On. Outpu f. Maximur signal or d r. Remote: t. 0~0.6V t. Remote: 25V, Maxir rel input vn n 2 pulses onize their nming via	4% of rate ty: +/-0.5° ty: +/-	Maximum: 30V, Maximum: 50V, Ma	n Voltage: imum Sin 0~0.6V oi num Volta pen. User ical: 2~30V imum high	k Current: r short. Lo age: 30V, M selectable / or open. unted by 2 level input	: 10mA. ccal: 2~30v Maximum S e logic. :7V zener) ut = 5V pos	or open.	nt: 10mA.
1.Vout voltage programming 2.lout voltage programming (*15) 3.Vout resistor programming (*15) 3.Vout resistor programming (*15) 5.Output voltage monitor (*23) 6.Output voltage monitor (*23) 6.Output current monitor (*15) (*23)  SIGNALS AND CONTROLS (ISOLATED FROM THE (1) 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE Signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal  FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control	OUTPUT)	0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~5V or 0- 0~5V or 0- 0~5V or 0- Enable/Di Ena	~5V or 0~  >>5V or 0~  >>5V or 0~  >>5V or 0~  >>5/10Koh  >>5/10Koh  >>10V, user  >10V, user  >10V, user  oply outpunitor. Ope sable anal ogrammin, sable PS o sable PS o drain prog low level ninimum.  al Voltage 0 V (500ol  Jp to four ith Factory pplies can I output pc series resisable Outpation por patients.	at monitor in collecto og prograg g control rutput by e grammabl input volt Tr,Tf=lus input volt input vol	eselectable le, user se le, Accurac le, Ac	e. Accuracy lectable. I lectab	y and line Accuracy a	arity: +/-0. and linearia and linearia Vout. lout.  On. Outpu f. Maximur signal or d r. Remote: 25V, Maxim rel input vo n 2 pulses  please co- onize their nming via rrogrammi amming ra	4% of rate ty: +/-0.5° ty: -/-0.5° ty: -/-	Maximum: 30V, Maximum: 30V, Maximum: 30V, Maximum: 30V, Maximum: 30V or off. Maximum: 30V or	n Voltage: imum Sin 0~0.6V on mum Volta pen. User ical: 2~300 0mA (Shu num high	k Current: r short. Lo age: 30V, M selectable / or open. unted by 2 level input the front p orts or the or A/mSe	: 10mA.  I cal: 2~30V  I aximum S  I ogic.  I V zener)  I t = 5V pos  I front pan  I c. Progran	or open. ink Currer sitive edge	e trigger:
1.Vout voltage programming 2.lout voltage programming (*15) 3.Vout resistor programming 4.lout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor (*23) 6.Output voltage monitor (*23) 6.Output current monitor (*15) (*23)  SIGNALS AND CONTROLS (ISOLATED FROM THE 1 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE Signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal  FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control	OUTPUT)	0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~5V or 0-  Power sup CV/CC Mo Enable/Di analog pre Enable/Di Two open Maximum tw=10us n By electric 4~5V=OK,  Possible, U Consult w Power sup Limits the Emulates : Programm	~5V or 0~  >>5V or 0~  >>5V or 0~  >>5V or 0~  >>5/10Koh  >>5/10Koh  >>10V, user  >10V, user  >10V, user  oply outpunitor. Ope sable anal ogrammin, sable PS o sable PS o drain prog low level ninimum.  al Voltage 0 V (500ol  Jp to four ith Factory pplies can I output pc series resisable Outpation por patients.	at monitor in collecto og prograg g control rutput by e grammabl input volt Tr,Tf=lus input volt input vol	eselectable le, user se le, Accurac le, Ac	e. Accuracy lectable. I lectab	y and line Accuracy a	arity: +/-0. and linearia and linearia Vout. lout.  On. Outpu f. Maximur signal or d r. Remote: 25V, Maxim rel input vo n 2 pulses  please co- onize their nming via rrogrammi amming ra	4% of rate ty: +/-0.5° ty: -/-0.5° ty: -/-	Maximum: 30V, Maximum: 30V, Maximum: 30V, Maximum: 30V, Maximum: 30V or off. Maximum: 30V or	n Voltage: imum Sin 0~0.6V on mum Volta pen. User ical: 2~300 0mA (Shu num high	k Current: r short. Lo age: 30V, M selectable / or open. unted by 2 level input the front p orts or the or A/mSe	: 10mA.  I cal: 2~30V  I aximum S  I ogic.  I V zener)  I t = 5V pos  I front pan  I c. Progran	or open. ink Currer sitive edge	e trigger:
1.Vout voltage programming 2.lout voltage programming 3.Vout resistor programming 4.lout resistor programming 4.lout resistor programming 4.lout resistor programming 6.Coutput voltage monitor (*23) 6.Output voltage monitor (*23) 6.Output current monitor (*15) (*23)  SIGNALS AND CONTROLS (ISOLATED FROM THE 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal  FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms	OUTPUT)	0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~5V or 0-  Power sup CV/CC Mo Enable/Di analog pre Enable/Di Enab	~5V or 0~  ~5V or 0~  ~5V or 0~  ~5/10Koh  ~5/10Koh  ~10V, user  ~	-10V, user: mfull sca mfull sca mfull sca selectable se	eselectable le, user se le, Accurac  . Open co r. CC mod mming co monitor si electrical se lectrical se lestrical	e. Accuracy lectable. I lectab	y and line Accuracy a Accuracy a Accuracy a for rated fo	arity: +/-0. and linearia and linearia vout. lout.  On. Outpu f. Maximurs signal or d f. Remote: 25V, Maximurs rel input vv n 2 pulses  please co- conize their mming via rrogrammi amming ra Activatior	4% of rate ty: +/-0.5° ty: -/-0.6° ty: -/-	Maximum 30V, Max -30V or op r short. Lo current 10 .5V, Maxir	n Voltage: imum Sin 0~0.6V o. mum Volta pen. User ical: 2~30\ 10mA (Shu mum high  ff. n ports or 1 ication pt 9 V/mSec.	k Current: r short. Lo age: 30V, M age: 30V, M selectable / or open. unted by 2 level input the front p orts or the or A/mSe	: 10mA.  :cal: 2~30V Aaximum Selogic.  :7V zener)  ut = 5V pos  panel.  :front pan c. Progran	or open. ink Currentiative edge el. nming via	e trigger:
1.Vout voltage programming 2.lout voltage programming (*15) 3.Vout resistor programming (*15) 3.Vout resistor programming (*15) 5.Output voltage monitor (*23) 6.Output current monitor (*15) (*23)  SIGNALS AND CONTROLS (ISOLATED FROM THE 1 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE Signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal  FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 6. Slew rate control 7. Arbitrary waveforms  PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*19)(*20) Interfaces)	OUTPUT)	0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~5V or 0 0~5V o	~5V or 0~ ~5V or	**Holy, user : Im full sca is me full sca is selectable	selectable le, user se le, user se le, user se le, user se le, Accurac  . Open co r. CC mod mming co monitor si electrical se lectrical se lectrical se les signals. lage = 0.8 Maximum 2~300 or c lance)=Fa  al GSP un  cted in Da cte	e. Accuracy lectable. I lectab	y and line Accuracy a	arity: +/-0. and linearia and linearia Vout. lout.  On. Outpu f. Maximur signal or d r. Remote: 25V, Maxim rel input vo n 2 pulses  please co- onize their nming via rrogrammi amming ra	4% of rate ty: +/-0.5° ty: -/-0.5° ty: -/-	Maximum: 30V, Maximum: 30V, Maximum: 30V, Maximum: 30V, Maximum: 30V or off. Maximum: 30V or	n Voltage: imum Sin 0~0.6V on mum Volta pen. User ical: 2~300 0mA (Shu num high	k Current: r short. Lo age: 30V, M selectable / or open. unted by 2 level input the front p orts or the or A/mSe	: 10mA.  I cal: 2~30V  I aximum S  I ogic.  I V zener)  I t = 5V pos  I front pan  I c. Progran	or open. ink Currer sitive edge	e trigger:
1.Vout voltage programming 2.lout voltage programming (*15) 3.Vout resistor programming (*15) 5.Output resistor programming (*15) 5.Output voltage monitor (*23) 6.Output current monitor (*15) (*23)  SIGNALS AND CONTROLS (ISOLATED FROMTHE 1. Prower supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE Signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 10. DAISY_IN/SO CONTROL signal 10. DAISY_OUT/PS_OK #2 signal  FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms  PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*19)(*20) Interfaces) 1.Vout programming accuracy (*16)	OUTPUT)	0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~5V or 0-  Power sup CV/CC Mo Enable/Di analog pre Enable/Di Two open Maximum tw=10us n By electric 4~5V=OK,  Possible, L Consult w Power sup Limits the Emulates s Programm communic Profiles of	~5V or 0~  >>5V or 0~  >>5V or 0~  >>5/10Koh  >>5/10Koh  >>5/10V, user  >10V, user  >10V, user  >10V, user    10V, user	at monitor in collecto go ground by a grammab input voltage with stance. Reput rise and so the first stance and so the first stance. Reput rise and so the first stance are stance.	selectable le, user se le, user se le, user se le, user se le, Accurac  . Open co r. CC mod mming co monitor si electrical se lectrical se lectrical se les signals. lage = 0.8 Maximum 2~300 or c lance)=Fa  al GSP un  cted in Da cte	e. Accuracy lectable. I lectab	y and line Accuracy a Accuracy a Accuracy a for rated fo	arity: +/-0. and linearia and linearia vout. lout.  On. Outpu f. Maximurs signal or d f. Remote: 25V, Maximurs rel input vv n 2 pulses  please co- conize their mming via rrogrammi amming ra Activatior	4% of rate ty: +/-0.5° ty: -/-0.6° ty: -/-	Maximum 30V, Max -30V or op r short. Lo current 10 .5V, Maxir	n Voltage: imum Sin 0~0.6V o. mum Volta pen. User ical: 2~30\ 10mA (Shu mum high  ff. n ports or 1 ication pt 9 V/mSec.	k Current: r short. Lo age: 30V, M age: 30V, M selectable / or open. unted by 2 level input the front p orts or the or A/mSe	: 10mA.  :cal: 2~30V Aaximum Selogic.  :7V zener)  ut = 5V pos  panel.  :front pan c. Progran	or open. ink Currentiative edge el. nming via	e trigger:
1.Vout voltage programming 2.lout voltage programming (*15) 3.Vout resistor programming (*15) 3.Vout resistor programming (*15) 5.Output voltage monitor (*23) 6.Output voltage monitor (*23) 6.Output current monitor (*15) (*23)  SIGNALS AND CONTROLS (ISOLATED FROM THE (*1) 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE Signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal  FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms  PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*19)(*20) Interfaces) 1.Vout programming accuracy (*15)	OUTPUT)	0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~5V or 0-  Power sup CV/CC Mo Enable/Di analog pre Enable/Di Two open Maximum tw=10us n By electric 4~5V=OK,  Possible, L Consult, U Power sup Limits the Emulates s Programm communic Profiles of  10 0.05% of ra 0.3% of ra	~5V or 0~  >>5V or	at monitor in collecto og prograg g control rutput by e grammabl input volt Tr,Tf=lus!  (4) identic y be connected by the con	eselectable le, user se le, Accurac  Open co r. CC mod mming co monitor si electrical se lectrical se	e. Accuracy lectable. I lectab	y and line Accuracy a Accuracy a Accuracy a for rated fo	arity: +/-0. and linearia and linearia vout. lout.  On. Outpu f. Maximurs signal or d f. Remote: 25V, Maximurs rel input vv n 2 pulses  please co- conize their mming via rrogrammi amming ra Activatior	4% of rate ty: +/-0.5° ty: -/-0.6° ty: -/-	Maximum 30V, Max -30V or op r short. Lo current 10 .5V, Maxir	n Voltage: imum Sin 0~0.6V o. mum Volta pen. User ical: 2~30\ 10mA (Shu mum high  ff. n ports or 1 ication pt 9 V/mSec.	k Current: r short. Lo age: 30V, M age: 30V, M selectable / or open. unted by 2 level input the front p orts or the or A/mSe	: 10mA.  :cal: 2~30V Aaximum Selogic.  :7V zener)  ut = 5V pos  panel.  :front pan c. Progran	or open. ink Currentiative edge el. nming via	e trigger:
1.Vout voltage programming 2.lout voltage programming 2.lout voltage programming 4.lout resistor programming 4.lout resistor programming 4.lout resistor programming 6.Output voltage monitor (*23) 6.Output voltage monitor (*23) 6.Output current monitor (*15) (*23)  SIGNALS AND CONTROLS (ISOLATED FROM THE 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE Signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal  FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms  PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*19)(*20) Interfaces) 1.Vout programming accuracy (*15) 3.Vout programming accuracy (*15)	OUTPUT)	0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~5V or 0~  Power sup CV/CC Mo Enable/Di Enabl	>>SV or 0~	at monitor in collecto og prograg go control ri utuput by e grammabli input volt Tr, IF-1 us in input volt Tr, IF-1 us input input your stance. Re pour rise ants or the first steps can utuput by e grammabli input volt Tr, IF-1 us input your rise ants or the first steps can utuput by every or a patrice. Re pour rise ants or the first steps can utuput by court rise ants or the first steps can utuput voltage t current put voltage t current	eselectable le, user se le, us	e. Accuracy lectable. I lectab	y and line Accuracy a Accuracy a Accuracy a for rated fo	arity: +/-0. and linearia and linearia vout. lout.  On. Outpu f. Maximurs signal or d f. Remote: 25V, Maximurs rel input vv n 2 pulses  please co- conize their mming via rrogrammi amming ra Activatior	4% of rate ty: +/-0.5° ty: -/-0.6° ty: -/-	Maximum 30V, Max -30V or op r short. Lo current 10 .5V, Maxir	n Voltage: imum Sin 0~0.6V o. mum Volta pen. User ical: 2~30\ 10mA (Shu mum high  ff. n ports or 1 ication pt 9 V/mSec.	k Current: r short. Lo age: 30V, M age: 30V, M selectable / or open. unted by 2 level input the front p orts or the or A/mSe	: 10mA.  :cal: 2~30V Aaximum Selogic.  :7V zener)  ut = 5V pos  panel.  :front pan c. Progran	or open. ink Currentiative edge el. nming via	e trigger:
1.Vout voltage programming 2.lout voltage programming (*15) 3.Vout resistor programming (*15) 3.Vout resistor programming (*15) 5.Output voltage monitor (*23) 6.Output current monitor (*15) (*23)  SIGNALS AND CONTROLS (ISOLATED FROM THE (*1.5) 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE Signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 10. DAISY_IN/SO control signal 10. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal  FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms  PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*19)(*20) Interfaces) 1. Vout programming accuracy (*16) 2. Iout programming resolution 4. Iout programming resolution	OUTPUT)	0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~5V or 0 0~5V o	~5V or 0~  ~5V or 0~  ~5V or 0~  ~5V or 0~  ~5/10Koh  ~5/10Koh  ~10V, user  ~1	at monitor in collector of the monitor of the mo	selectable le, user se le, user se le, user se le, user se le, Accurac  . Open co r. CC mod mming co monitor si electrical se lectrical se lectrical se lectrical se lectrical se lectrical se les signals. lagge = 0.88 Maximum 2~300 or c lance)=Fa  al GSP un  cted in Da originals sistance r. d Output cont pane be storec  40	e. Accuracy lectable. I lectab	y and line Accuracy a Accuracy a Accuracy a for rated fo	arity: +/-0. and linearia and linearia vout. lout.  On. Outpu f. Maximurs signal or d f. Remote: 25V, Maximurs rel input vv n 2 pulses  please co- conize their mming via rrogrammi amming ra Activatior	4% of rate ty: +/-0.5° ty: -/-0.6° ty: -/-	Maximum 30V, Max -30V or op r short. Lo current 10 .5V, Maxir	n Voltage: imum Sin 0~0.6V o. mum Volta pen. User ical: 2~30\ 10mA (Shu mum high  ff. n ports or 1 ication pt 9 V/mSec.	k Current: r short. Lo age: 30V, M age: 30V, M selectable / or open. unted by 2 level input the front p orts or the or A/mSe	: 10mA.  :cal: 2~30V Aaximum Selogic.  :7V zener)  ut = 5V pos  panel.  :front pan c. Progran	or open. ink Currentiative edge el. nming via	e trigger: the
1.Vout voltage programming 2.lout voltage programming (*15) 3.Vout resistor programming (*15) 5.Output voltage monitor (*23) 6.Output voltage monitor (*23) 6.Output current monitor (*15) (*23)  SIGNALS AND CONTROLS (ISOLATED FROMTHE 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE Signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 10. DAISY_IN/SO control signal 11. DAISY_OUT/PS_OK #2 signal  FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms  PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*19)(*20) Interfaces) 1.Vout programming accuracy (*15) 3. Vout programming resolution 4. lout programming resolution 5. Vout readback accuracy	OUTPUT)	0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~5V or 0-  Power sup CV/CC Mo Enable/Di analog pre Enable/Di Enab	~5V or 0~  ~5V or 0~  ~5V or 0~  ~5/10Koh  ~5/10Koh  ~10V, user  ~	-10V, user: mfull sca mf full sca mf full sca selectable selectabl	selectable le, user se le, user se le, user se le, user se le, Accurac  . Open co r. CC mod mming co monitor si electrical se lectrical se lectrical se lectrical se lectrical se lectrical se les signals. lagge = 0.88 Maximum 2~300 or c lance)=Fa  al GSP un  cted in Da originals sistance r. d Output cont pane be storec  40	e. Accuracy lectable. I lectab	y and line Accuracy a Accuracy a Accuracy a for rated fo	arity: +/-0. and linearia and linearia vout. lout.  On. Outpu f. Maximurs signal or d f. Remote: 25V, Maximurs rel input vv n 2 pulses  please co- conize their mming via rrogrammi amming ra Activatior	4% of rate ty: +/-0.5° ty: -/-0.6° ty: -/-	Maximum 30V, Max -30V or op r short. Lo current 10 .5V, Maxir	n Voltage: imum Sin 0~0.6V o. mum Volta pen. User ical: 2~30\ 10mA (Shu mum high  ff. n ports or 1 ication pt 9 V/mSec.	k Current: r short. Lo age: 30V, M age: 30V, M selectable / or open. unted by 2 level input the front p orts or the or A/mSe	: 10mA.  :cal: 2~30V Aaximum Selogic.  :7V zener)  ut = 5V pos  panel.  :front pan c. Progran	or open. ink Currentiative edge el. nming via	e trigger: the
1.Vout voltage programming 2.lout voltage programming (*15) 3.Vout resistor programming (*15) 5.Output voltage monitor (*23) 6.Output voltage monitor (*23) 6.Output current monitor (*15) (*23)  SIGNALS AND CONTROLS (ISOLATED FROMTHE) 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE Signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal  FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms  PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*19)(*20) Interfaces) 1.Vout programming accuracy (*16) 2.lout programming resolution 4.lout programming resolution 5. Vout readback accuracy 6.lout readback accuracy	OUTPUT)	0~100%, 0   0~100%, 0   0~100%, 0   0~100%, 0   0~100%, 0   0~5V or 0-   0~5V of ra-   0~5	~5V or 0~  >>5V or 0~  >>5V or 0~  >>5/10Koh  >>5/10Koh  >>6/10V, user  >>10V, user	at monitor in collecto og prograg gontrol in tutput by e output by	eselectable le, user se le, accurac  Open co r. CC mod monitor si electrical se lectrical	e. Accuracy lectable. I lectab	y and line Accuracy a Accuracy a Accuracy a Go frated Go of rated	arity: +/-0. and linearia and linearia vout. lout.  On. Outpu f. Maximur signal or d r. Remote: 25V, Maximur vel input ven n 2 pulses please con onize their nming via drogrammi amming ra Activatior 80	4% of rate ty: +/-0.5° ty: -/-0.6° ty: -/-	Maximum: 30V, Max: Nemote: Off. Maximum: 30V or oper short. Locurrent 10.55V, Maximum: 101~999.99.99.99.99.99.99.99.99.99.99.99.99	n Voltage: imum Sin 0~0.6V on mum Volta pen. User ical: 2~30V 00mA (Shu num high  ff. n ports or 1 ication pc 9 V/mSec. me commu 200	k Current: r short. Lo age: 30V, M selectable / or open. unted by 2 level inpu  the front p or A/mSe unication  300	270 zanel.  270 za	el. nming via t the front	the t panel.
1.Vout voltage programming 2.lout voltage programming (*15) 3.Vout resistor programming (*15) 5.Output voltage monitor (*23) 6.Output voltage monitor (*23) 6.Output current monitor (*15) (*23)  SIGNALS AND CONTROLS (ISOLATED FROMTHE 1) 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE Signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal  FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms  PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*19)(*20) Interfaces) 1.Vout programming accuracy (*16) 2. Iout programming resolution 4. Lout programming resolution 5. Vout readback accuracy	OUTPUT)	0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~5V or 0-  Power sup CV/CC Mo Enable/Di analog pre Enable/Di Enab	>>SV or 0~	-10V, user: mfull sca mf full sca mf full sca selectable selectabl	selectable le, user se le, Accurac  . Open co r. CC mod mming co monitor si electrical se lectrical se lectrical se lectrical se lectrical se les signals. lagge = 0.88 Maximum 2~300 or c lance)=Fa  al GSP un  cted in Da originals sistance r. d Output cont pane be storec  40	e. Accuracy lectable. I lectab	y and line Accuracy a Accuracy a Accuracy a for rated fo	arity: +/-0. and linearia and linearia Vout. lout.  On. Outpu f. Maximur signal or d r. Remote: t. 0~0.6v c t. Remote: 25V, Maxir vel input vo n 2 pulses  please co- conize their nming via rogrammi amming ra Activatior  80  0.002%	4% of rate ty: +/-0.5° ty: -/-0.6° ty: -/-	Maximum 30V, Max -30V or op r short. Lo current 10 .5V, Maxir	n Voltage: imum Sin 0~0.6V o. mum Volta pen. User ical: 2~30\ 10mA (Shu mum high  ff. n ports or 1 ication pt 9 V/mSec.	k Current: r short. Lo age: 30V, M selectable / or open. unted by 2 level inpu  the front p or A/mSe  unication  300	e 10mA.  ical: 2~30V  Maximum Se logic.  i7V zener)  ut = 5V pos  panel.  ifront pan  c. Progran  ports or by  400	or open. ink Currentiative edge el. nming via	e trigger:

#### GENESYS™ GSP10kW/15kW SERIES SPECIFICATIONS

Footback protection   Use presentable, Receipt by King put recycle in autostant mode, by prove Works, by Curry by respensible protection (CVP)   Use presentable, Receipt by King put recycle in autostant mode, by OUTPUT butto, by rear panel or by commissation, and other works are protected by the protected in autostant mode, by OUTPUT butto, by rear panel or by commissation, and other works are protected by Commissation (CVP)   Use of the protected by King put recycle in autostant mode, by OUTPUT butto, by rear panel or by count microscopic panel (CVP)   Use of the protected by King put recycle in autostant mode, by OUTPUT butto, by rear panel or by count panel (CVP)   Use of the protected by King put recycle in autostant mode, by OUTPUT butto, by rear panel or by Commissation, and the protection of the protec	PROTECTIVE FUNCTIONS		V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
20per voltage protection (XVP)	1.Foldback protection			Output sl User pres	nut-down etable. Re	when pov	wer supply	y changes ycle in aut	mode froi ostart mo	m CV or P de, by Po	ower Lim wer Switc	it to CC mo	de or fror UT butto	n CC or Po	wer Limit anel or b	to CV mod	e. ication.
## A Cheevootage programming accuracy	2.Over-voltage protection (OVP)			_													
Soutput under voltage limit (UVL)	3.Over -voltage programming ran	nge	V	0.5~12	1~24	2~36	2~44.1	5~55.125	5~66.15	5~88.2	5~110.2	5 5~165.37	5~220.5	5~330.75	5~441	5~551.25	5~661.5
6. Over trepresenture protection 2. Output under voltage protection (UVP) 3. Output under voltage protection (UVP) 4. Output under voltage protection (UVP) 5. Output under voltage protection (UVP) 5. Output under voltage protection (UVP) 6. Output under voltage	4. Over-voltage programming acc	curacy		+/-1% of ı	ated outp	ut voltag	e										
2. Output under voltage limit (VIV)		L)	_							n analog	program	ming. Prese	et by fron	t panel or o	ommunio	ation port	
8. Output under voltage protection (UVP)			_						art mode.								
mode by Power Switch, by OUTPUT button, by year panel or by communication.	7. Output under voltage limit (UV	L)		Prevents	adjustme	nt of Vout	below lin	nit.									
Lontrol functions	8. Output under voltage protection	on (UVP)		Prevents mode, by	adjustmei Power Sw	nt of Vout ritch, by O	below lim UTPUT bu	nit. P.S out utton, by r	out turns ( ear panel	Off during or by com	g under vo imunicati	oltage con ion.	dition. Re	set by AC i	nput recy	cle in autos	start
	FRONT PANEL																
	1.Control functions			Multiple	options w	th 2 Enco	ders										
## Tortection Functions - OVP, LVIL, IVP, Foldback, OCI, ENA, ILC ## Communication Functions - Selection of LAN Escale Standards Stay Stay Stay Stay Stay Stay Optional communication interface. ## Communication Functions - Selection of Stay State, Address, IP and communication interface. ## Communication Functions - Selection of Voltage (Communication Inarquage). ## Analog Control Functions - Selection of Voltage (Communication Inarquage). ## Analog Control Functions - Selection of Voltage (Communication), SVIOV, SK/10K programming. ## Analog Control Functions - Selection of Voltage (Communication), SVIOV, SK/10K programming. ## Analog Control Functions - Selection of Voltage (Communication), SVIOV, SK/10K programming. ## Analog Control Functions - Selection of Voltage (Communication), SVIOV, SK/10K programming. ## Analog Control Functions - Selection of Voltage (Communication), SVIOV, SK/10K programming. ## Analog Control Functions - Selection of Voltage (Communication), SVIOV, SK/10K programming. ## Analog Control Functions - Selection of Voltage (Communication), SVIOV, SK/10K programming. ## Analog Control Functions - Selection of Voltage (Communication), SVIOV, SK/10K programming. ## Analog Control Functions - Selection of Voltage (Communication), SVIOV, SK/10K programming. ## Analog Control Functions - Selection of Voltage (Communication), SVIOV, SK/10K programming. ## Analog Control Functions - Selection of Voltage (Communication), SVIOV, SK/10K programming. ## Analog Control Functions - Selection of Voltage (Communication), SVIOV, SK/10K programming. ## Analog Control Functions - Selection of Voltage (Communication), SVIOV, SK/10K programming. ## Analog Control Functions - Selection Voltage (Communication), SVIOV, SK/10K programming. ## Analog Control Functions - Selection Voltage (Communication), SVIOV, SK/10K programming. ## Analog Control Functions - Selection Voltage (Communication Punction), SVIOV, SK/10K programming. ## Analog Control Functions - Selection Voltage (Communication), SVIOV, SK/10K prog				Vout/lou	t/Power Li	mit manu	al adjust										
				OVP/UVL	/UVP man	ual adjust											
### Communication Functions - Selection of Baud Rate, Address, IP and communication language.  ### Communication Functions - Selection of Valage-desistive programming, SVI/DV, SK/10K programming ### Analog Control Functions - Selection of Voltage-desistive programming, SVI/DV, SK/10K programming ### Analog Control Functions - Selection of Voltage-desistive programming, SVI/DV, SK/10K programming ### Analog Control Functions - Selection of Voltage-desistive programming, SVI/DV, SK/10K programming ### Analog Control Functions - Selection of Voltage-desistive programming, SVI/DV, SK/10K programming ### Analog Control Functions - Selection of Voltage-desiction of Voltage-desic				Protectio	n Functio	ns - OVP, L	JVL,UVP, F	oldback, (	CL, ENA,	ILC							
Communication Functions - Selection of Baud Rate, Address, IP and communication language.  Analog Control Functions - Selection of Baud Rate, Address, IP and communication language.  Analog Control Functions - Selection of Voltage-fixed recomming. SVI 10V, SX/10K programming  Analog Monitor Functions - Selection of Voltage-fixed recomming. SVI 10V, SX/10K programming  Brown Analog Monitor Functions - Selection of Voltage-fixed recomming. SVI 10V, SX/10K programming  Brown Analog Monitor Functions - Selection of Voltage-fixed recomming.  Brown Famel Bustions Indications				Commun	ication Fu	nctions - :	Selection	of LAN,IEE	E,RS232,R	S485,USE	or Optio	nal commu	inication i	interface.			
Analog Monitor Functions - Selection of Voltage (Current Monitoring SV10V).																	
2.Display     Vout4 digits, accuracy. 20.5% of rated output voltage 4-1 count.     Out4 digits, accuracy. 20.5% of rated output voltage 4-1 count.     Out4 digits, accuracy. 20.5% of rated output userns 4-1 count.     Out4 digits, accuracy. 20.5% of rated output userns 4-1 count.     Out4 digits, accuracy. 20.5% of rated output userns 4-1 count.     Out4 digits, accuracy. 20.5% of rated output userns 4-1 count.     Out4 digits, accuracy. 20.5% of rated output userns 4-1 count.     Out4 digits, accuracy. 20.5% of rated output userns 4-1 count.     Out4 digits, accuracy. 20.5% of rated output voltage, External Current, Address, LFP, Autostart, Safetstart, Foldback VI, Remote communication, Ingger, Load/Store Cell.   Out4 digits, accuracy. 20.5% of Remove Ce												, 5K/10K pr	ogrammi	ng			
Interface   Inte	201										g 5V/10V.			_			
3.Front Panel Buttons Indications	2.Display		_														
4. Front Panel Display Indications	3 Front Danal Buttons Indications										NI CONITI	CLIDATION	CVCTEM	CECHIENC	-D		
Communication, RS/USB/LAN/IEEE communication, Trigger, Load/Store Cell.	3.FIGHT Faller Buttons indications																
1.Operating temperature	4. Front Panel Display Indications			(commun	Current, Polication), F	s/USB/LA	IN/IEEE co	mmunicat	age, Exter ion, Trigg	nal Curre er, Load/S	nt, Addre Store Cell	ss, LFP, Aut	ostart, Sa	fetstart, Fo	ldback V/	I, Remote	
2.Storage temperature	<b>ENVIRONMENTAL CONDITIONS</b>																
3. Operating humidity 96 20–99% RH (no condensation). 4. Storage humidity 96 10–99% RH (no condensation). 5. Altitude (*17)	1.Operating temperature			0~50°C, 1	00% load												
3.Operating humidity	2.Storage temperature			-30~85°C													
4.Storage humidity			%	20~90%	RH (no cor	densatio	n).										
S.Altitude (*17)																	
1.Cooling     Forced air cooling by internal fans. Air flow direction: from Front panel to power supply rear								rrent dera	ting 2%/10	00m or Ta	derating	1°C/100m	above 200	00m. Non o	perating:	40000ft (1	2000m).
1.Cooling     Forced air cooling by internal fans. Air flow direction: from Front panel to power supply rear	MECHANICAL																
2.Weight GSP 10kW kg Less than 15.5kg. 3.Dimensions (WxHxD) GSP 10kW mm W-423, H-88, D-441.5 (Without busbars and busbars cover), W-423, H-88, D-441.5 (Without busbars and busbars cover, and strain relief) (Refer to Outline drawing).  2.Weight GSP 15kW kg Less than 23.5kg. 3.Dimensions (WxHxD) GSP 15kW mm W-423, H-132.5, D-640 (Including busbars and busbars cover), W-423, W-423, H-132.5, D-640 (Including busbars and busbars cover), W-423, W-423, W-423, H-132.5, D-640 (Including busbars and busbars cover), W-423, W-423, H-132.5, D-640 (Including busbars and busbars cover), W-423, W-423, H-132.5, D-641, Including busbars and busbars cover, and strain relief) (Refer to Outline drawing).  4.Vibration				Forced ai	r cooling b	ov interna	lfans Air	flow direc	tion: from	Front na	nel to nov	ver sunnly	rear				
3.Dimensions (WxHxD) GSP 10kW mm W: 423, H: 88, D: 441.5 (Without busbars and busbars cover), W: 423, H: 88, D: 640 (Including busbars and busbars cover, and strain relief) (Refer to Outline drawing).  3.Dimensions (WxHxD) GSP 15kW kg Less than 23.5kg.  3.Dimensions (WxHxD) GSP 15kW mm W: 423, H: 132.5, D: 640 (Including busbars and busbars cover, and strain relief) (Refer to Outline drawing).  4.Vibration MIL-810G, method 514.6, Procedure, Lets condition Annex C - 2.1.3.1  5.Shock Less than 20G, half sine, 11mSec. Unit is unpacked.  5.AFETY/EMC  1.Applicable standards: Safety UL61010-1, CSA22.2 No.L61010-1, IECL61010-1, ENL61010-1.  1.1. Interface classification Vouts50V Models: Output, J1, J2, J3, J4, J5, J6, J7, B. J9 (communication options) are Non Hazardous.  60×Outs50V Models: Output & J8 (sense) are hazardous, J1, J2, J3, J4, J5, J6, J7 & J9 (communication options) are Non Hazardous.  Vouts50V Models: Input - Output & J8 (sense), J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VDC 1min, Input - Ground: 2835VDC 1min.  1.2 Withstand voltage Withstand voltage Sense Sense Sense J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VDC 1min, Output & J8 (sense) J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VDC 1min, Output & J8 (sense) J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VDC 1min, Output & J8 (sense) J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VDC 1min, Output & J8 (sense) J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VDC 1min.  1.3 Insulation resistance GSP10kW/15kW: 60 Mohm at 25°C, 70%RH. Output to Ground: 500VDC  2.Conducted emmision IEC/EN61204-3 Industrial environment, Annex H table H.1, FCC Part 15-A, VCCI-A.		GSP 10kW	ka			y micina	110113.7111	now direc		TTOTIC PUI	ici to pov	versuppry	rcui				
3.Dimensions (WXHXD) 4.Vibration 4.Vibration 5.Shock 4.Vibration 5.Shock 5.Shock 6.SAFETY/EMC 1.Applicable standards: 1.Applicable standards: 1.Applicable standards: 1.1.Interface classification 7.CSA22.2 No.L61010-1, IECL61010-1, ENL61010-1. 1.Interface classification 7.CSA22.2 No.L61010-1, IECL61010-1, ENL61010-1. 1.Interface classification 8.Vout≤50V Models: Output, J1, J2, J3, J4, J5, J6, J7, & J9 (communication options) are Non Hazardous. 60≤Vout≤600V Models: Input – Output & J8 (sense), J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VDC 1min, Input - Ground: 2835VDC 1min. 60V≤Vout≤50VD V Models: Input – Output & J8 (sense), J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VDC 1min, Output & J8 (sense) - Ground: 2805VDC 1min. 1.2 Withstand voltage 1.2 Withstand voltage 1.3 Insulation resistance 1.4 September 2. Conducted emmision 1.5 Insulation resistance 2. Conducted emmision 3. Radiated emission 4. EC/EN61204-3 Industrial environment, Annex H table H.1, FCC Part 15-A, VCCI-A. 3. Radiated emission 4. EC/EN61204-3 Industrial environment, Annex H table H.3 and H4, FCC Part 15-A, VCCI-A.						1.5 (Witho	ut hushar	s and hush	ars cover)								
3.Dimensions (WxHxD) GSP 15kW mm W: 423, H: 132.5, D: 441.5 (Without busbars and busbars cover), W: 423, H: 132.5, D: 640 (Including busbars and busbars cover, and strain relief) (Refer to Outline drawing).  4.Vibration				W: 423, H	l: 88, D: 64						relief) (Re	fer to Outli	ne drawin	ıg).			
S.P.	2.Weight	GSP 15kW	kg														
SAFETY/EMC	3.Dimensions (WxHxD)	GSP 15kW	mm								strain relie	ef) (Refer to	Outline	drawing).			
SAFETY/EMC   1.1.   Interface classification   Safety     UL61010-1, CSA22.2 No.L61010-1, IECL61010-1, ENL61010-1.	4.Vibration			MIL-810G	, method	514.6, Pro	cedure I, t	est condit	ion Anne	C - 2.1.3.	1						
1.1. Interface classification  1.2. Interface classification  1.3. Interface classification  1.4. Interface classification  1.5. Interface classification  1.6. Interface classification  1.6. Interface classification  1.7. Interface classification  1.8. Interface classification  1.9. Interface classification  1.0 Interface classification  1.1. Interface classification  1.2 Interface classification  1.3. Interface classification  1.4. Interface classification  1.5. Interface classification  1.6. Interface classification  1.6. Input - Output & J8 (sense) J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VDC 1min, Output & J8 (sense) - J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VDC 1min, Output & J8 (sense) - J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VDC 1min, Output & J8 (sense) - Ground: 2835VDC 1min.  1.3. Insulation resistance  1.3. Insulation resistance  1.4. Interface classification  1.5. Interface classification  1.6. Interface classification  1.6. Interface classification  1.7. J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VDC 1min, Output & J8 (sense) - J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VDC 1min, Output & J8 (sense) - Ground: 2835VDC 1min. Input - Ground:	5.Shock			Less than	20G, half	sine, 11m	Sec. Unit i	s unpacke	d.								
1.1. Interface classification  1.2. Interface classification  1.3. Interface classification  1.4. Interface classification  1.5. Interface classification  1.6. Interface classification  1.6. Interface classification  1.7. Interface classification  1.8. Interface classification  1.9. Interface classification  1.0 Interface classification  1.1. Interface classification  1.2 Interface classification  1.3. Interface classification  1.4. Interface classification  1.5. Interface classification  1.6. Interface classification  1.6. Input - Output & J8 (sense) J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VDC 1min, Output & J8 (sense) - J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VDC 1min, Output & J8 (sense) - J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VDC 1min, Output & J8 (sense) - Ground: 2835VDC 1min.  1.3. Insulation resistance  1.3. Insulation resistance  1.4. Interface classification  1.5. Interface classification  1.6. Interface classification  1.6. Interface classification  1.7. J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VDC 1min, Output & J8 (sense) - J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VDC 1min, Output & J8 (sense) - Ground: 2835VDC 1min. Input - Ground:	CATETY/EMC																
1.1. Interface classification		Safety	T	LII 61010	1 CSA22 1	No I 610	10-1 IECL	1010-1 FN	II 61010-1								
Vout≤50V Models: Input – Output & J8 (sense), J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VDC 1min, Input - Ground: 2835VDC 1min. 60V≤Vout≤100V Models: Input – Output & J8 (sense), J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VDC 1min, Input - Ground: 2835VDC 1min. Output & J8 (sense) - J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VDC 1min, Output & J8 (sense) - J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VDC 1min, Output & J8 (sense) - J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VDC 1min. 100V <vout≤600v &="" (communication="" (sense)="" (sense),="" -="" -<="" 1min.="" 2835vdc="" 4242vdc="" ground:="" input="" j1,="" j2,="" j3,="" j4,="" j5,="" j6,="" j7="" j8="" j9="" models:="" options):="" output="" td="" –=""><td></td><td>Jaiety</td><td></td><td>Vout≤50\</td><td>/ Models:</td><td>Output, J1</td><td>, J2, J3, J4</td><td>, J5, J6, J7,</td><td>J8 (sense)</td><td>&amp; J9 (con</td><td>nmunicati</td><td>ion options</td><td>are Non</td><td>Hazardou</td><td>5.</td><td></td><td></td></vout≤600v>		Jaiety		Vout≤50\	/ Models:	Output, J1	, J2, J3, J4	, J5, J6, J7,	J8 (sense)	& J9 (con	nmunicati	ion options	are Non	Hazardou	5.		
Input - Ground: 2835VDC 1min.												•					us.
2.Conducted emmision     IEC/EN61204-3 Industrial environment, Annex H table H.1, FCC Part 15-A, VCCI-A.       3.Radiated emission     IEC/EN61204-3 Industrial environment, Annex H table H.3 and H4, FCC Part 15-A, VCCI-A.				Input - G 60V≤Vou Output & Output & 100V <vo Output &amp; Output &amp; Input - G</vo 	round: 28 It≤100V M J8 (sens J8 (sens IN (sens) IN (sens IN (sens)	35VDC 1 flodels: Ir e) - J1, J2 e) - Grou Models: I e) - J1, J2 e) - Grou 35VDC 1	Imin. 1put – Ou 2, J3, J4, nd: 1500 1nput – O 2, J3, J4, nd: 2500 1min.	tput & J8 J5, J6, J7 VDC 1mir utput & J8 J5, J6, J7 VDC 1mir	(sense), ( 7 & J9 (co 1, Input - ( 1 (sense), 7 & J9 (co	J1, J2, J3 mmunica Ground: A J1, J2, J mmunica	3, J4, J5, ation opti 2835VDC 3, J4, J5, ation opti	J6, J7 & J ons): 850\ C 1min. J6, J7 and	9 (commod / DC 1mir	unication n. nmunicatio	nntions):	4242VDC	1min, OC 1min.
3.Radiated emission IEC/EN61204-3 Industrial environment, Annex H table H.3 and H4, FCC Part 15-A, VCCI-A.	1.3 Insulation resistance			GSP10kW	/15kW: 60	Mohm at	25°C, 709	6RH. Outp	ut to Gro	und 500\	/DC						
	2.Conducted emmision			IEC/EN61	204-3 Indi	ustrial env	rironment	, Annex H	table H.1 ,	FCC Part	15-A, VC	CI-A.					
	3.Radiated emission			IEC/EN61	204-3 Indi	ıstrial env	rironment	, Annex H	table H.3	and H4, F	CC Part 1	5-A, VCCI-A	١.				
4.EMC compliance EMC(*18) IEC/EN61204-3 Industrial environment	4. EMC compliance	EMC(*18)		IEC/EN61	204-3 Ind	ıstrial env	rironment										

Unless otherwise noted, specifications are warranted over the ambient temperature range of 0° to 50° C.

- Unless otherwise noted, specifications are warranted over the ambient temperature range of 0° to 50° C.

  "NOTES:

  11. Minimum voltage is guaranteed to maximum 0.1% of rated output voltage.

  12. Minimum current is guaranteed to maximum 0.2% of rated output current.

  13. GSP 10kW: Derate 10A/1°C above 40°C. GSP 15kW: Derate 15A/1°C above 40°C.

  14. For cases where conformance to various safety standards (UL, IEC, etc...) is required, to be described as 190-240Vac (50/60Hz) for 3-Phase 45: 3-Phase 200V models: At 200Vac input voltage, 3-Phase 400/480V: At 380Vac input voltage. With rated output power.

  16. Not including BMI filter inrush current, Iess than 0.2mSec.

  17. 3-Phase 200V models: 170-265Vac, 3-Phase 400/ models: 342-460Vac, 3-Phase 480V models: 342-528Vac. Constant load.

  18. From No-Load to Full-Load, constant input voltage. Measured at the sensing point in Remote Sense.

  19. For 10V-150V models: Measured with JEITA RC-913IC (1:1) probe. For 200-6600V models: Measured with 100:1 probe.

  10. The maximum voltage on the power supply terminals must not exceed the rated voltage.

  11. From 10W to 90% or 90% to 10% of Rated Output Voltage, with rated, resistive load.

  12. From 90% to 10% of Rated Output Voltage.

  13. For load voltage change, equal to the unit voltage rating, constant input voltage.

  14. For 10V model the ripple is measured at 2V and rated output current. For other models, the ripple is measured at 10% of rated output voltage. B.W 5Hz~1MHz.

  15. The Constant Current programming, readback and monitoring accuracy do not include the warm-up and Load regulation thermal drift.

  16. Measured at the sensing point.

  17. For 10V model lor ports interface cables length: Less than 3m, DC output power port cables length: Less than 30m.

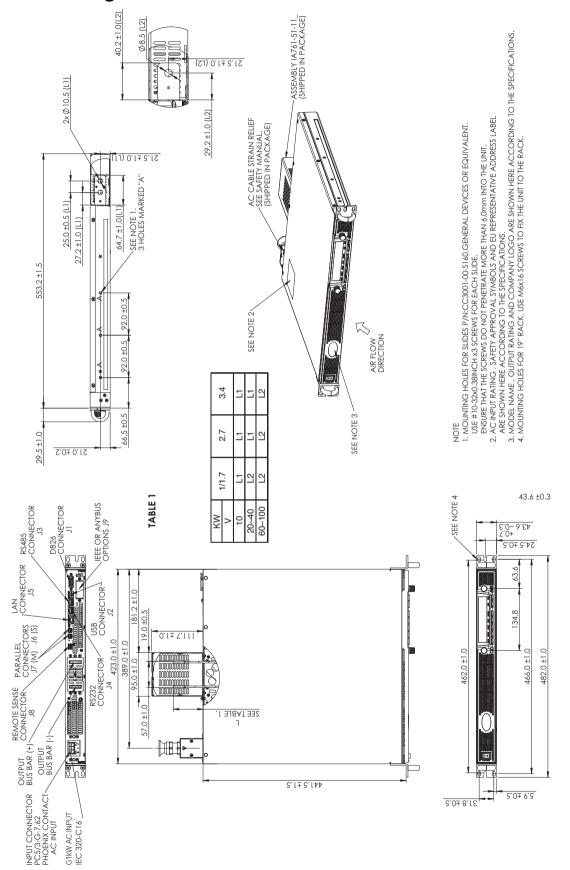
  19. Max. ambient temperature for using IEEE is 40°C.

  20. GSP10kW For 10V model only: Max. output current for using IEEE is 1200A up to 40°C and 1350A up to 30°C.

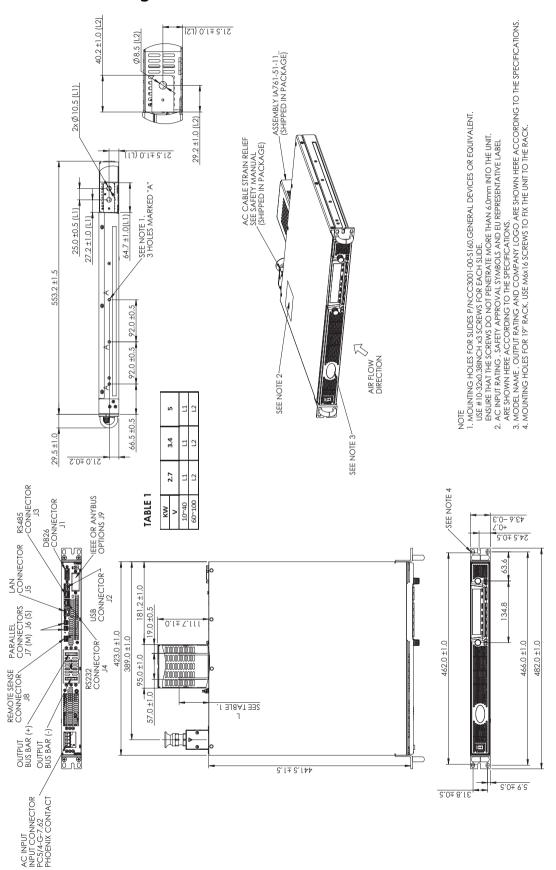
  21. For 10V model only: For 3-Phase 200V efficiency is 88.5%

  22. Typ. at 12 and 12 and 12 and 12 and 12 and

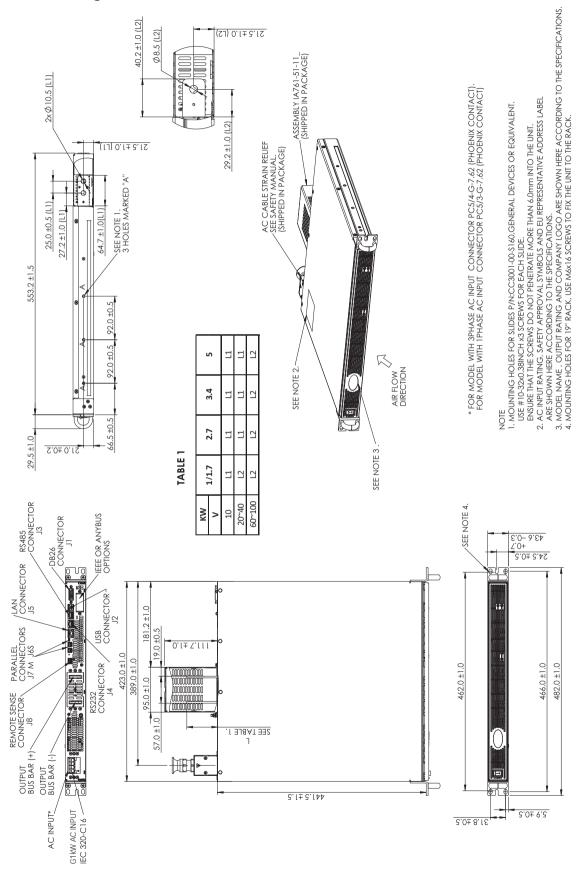
### Outline Drawing GENESYS™ G1kW/1.7kW/2.7kW/3.4kW - 1-Phase



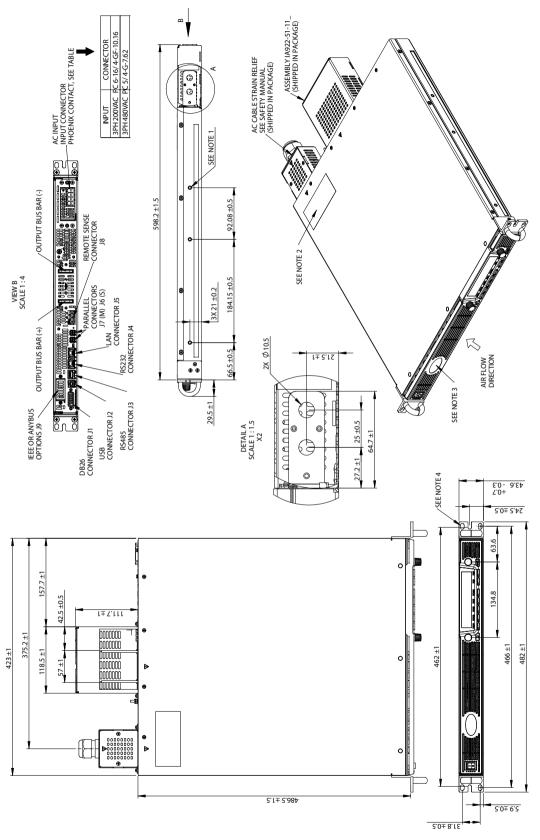
### Outline Drawing GENESYS™ G2.7kW/G3.4kW/G5kW - 3-Phase



### Outline Drawing GENESYS™ GB1kW/1.7kW/GB2.7kW/GB3.4kW/GB5kW - ATE Version



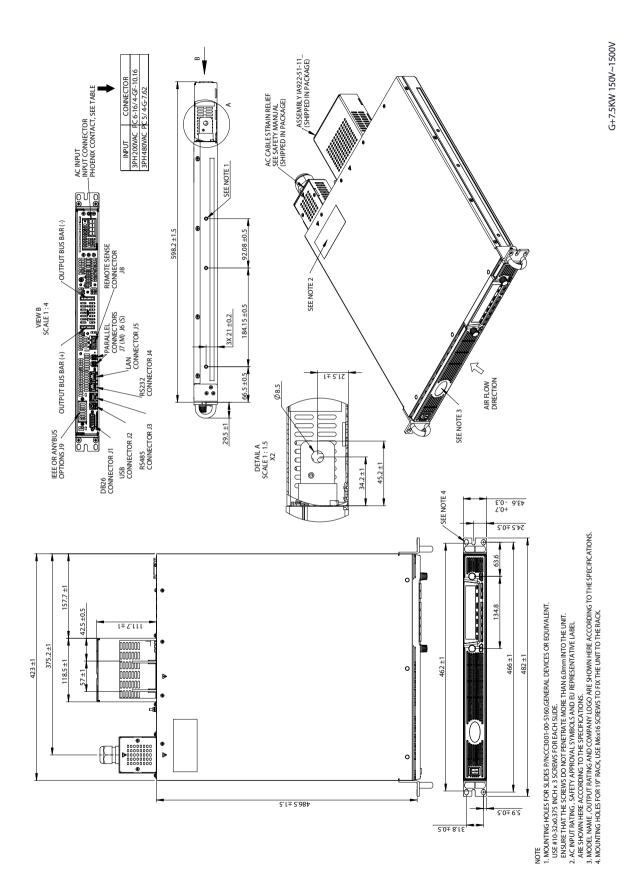
### Outline Drawing GENESYS™ G7.5kW - LV (20V-100V) 3-Phase



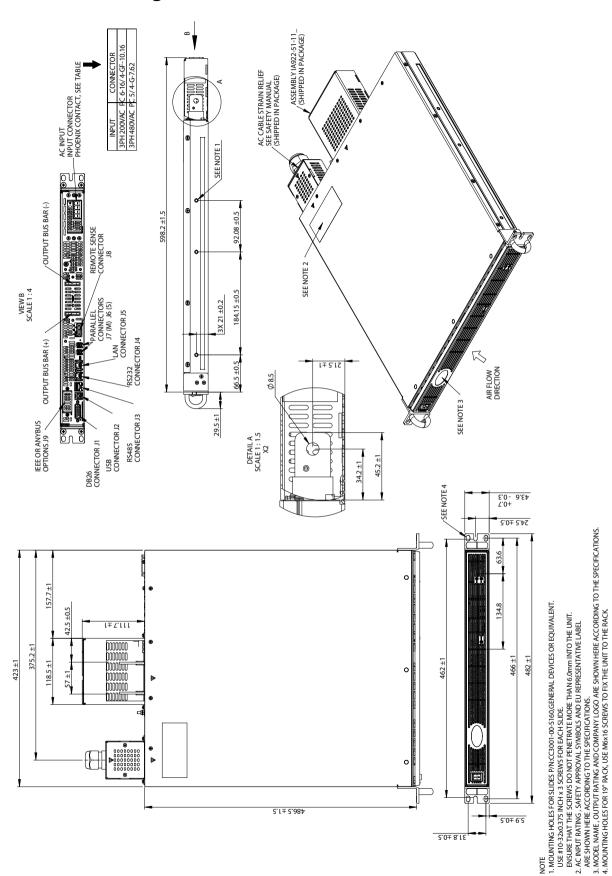
1. MOUNTING HOLES FOR SLIDES PAR.CG3001-00-5160,GENERAL DEVICES OR EQUIVALENT.
US# #10-320-325 (MAY AS SCREWS FOR REACH SLIDE.
ENSURE THAT THE SCREWS DO NOT PENETRAITE MORE THAN 6.0mm INTO THE UNIT.
2. AC INPUT RATING , SAFETY APPROVAL SYMBOLS AND EU REPRESENTATIVE LABEL
ARE SHOWNH HERE ACCORDINGT OT THE SPECIFICATIONS.
3. MODEL NAME, OUTPUT RATING AND COMPANY LOGO ARE SHOWN HERE ACCORDING TO THE SPECIFICATIONS.
4. MOUNTING HOLES FOR 19" PACK, USE MOX IS GREWS TO FIX THE UNIT TO THE PACK.

G+7.5KW 20V~100V

### Outline Drawing GENESYS™ G7.5kW - HV (150V-1500V) 3-Phase

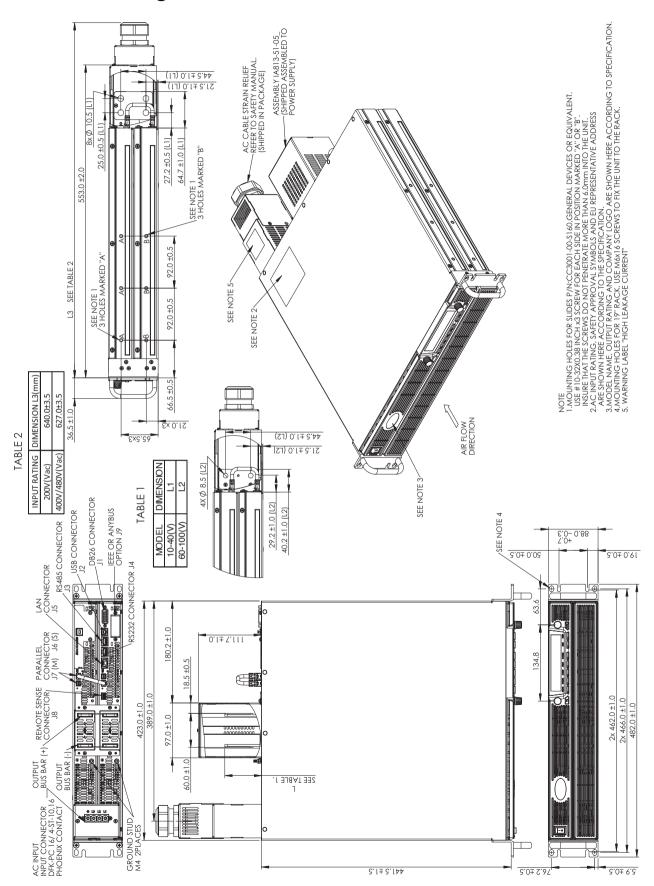


### Outline Drawing GENESYS<sup>™</sup> GB7.5kW ATE Version

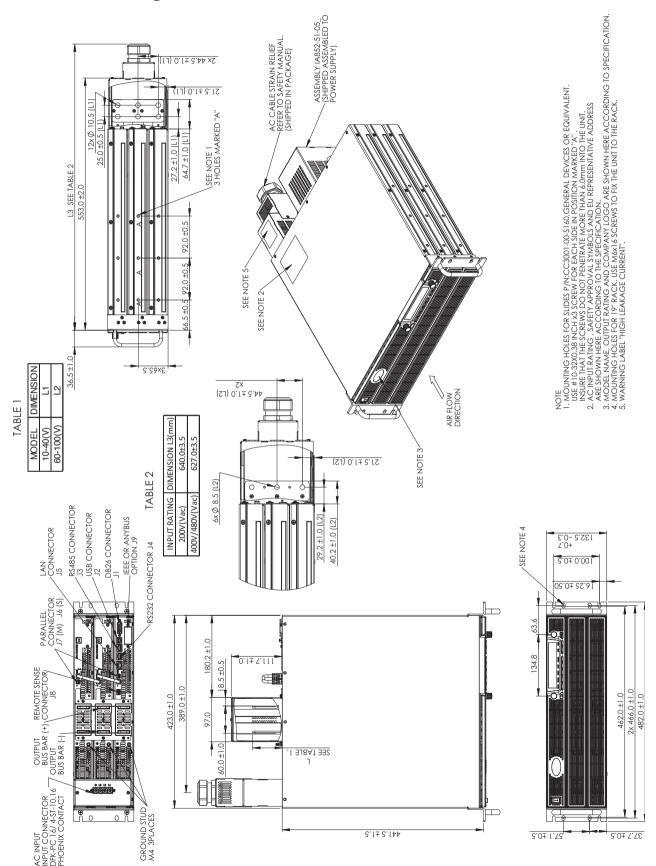


G+7.5KW BLANK 150V~1500V

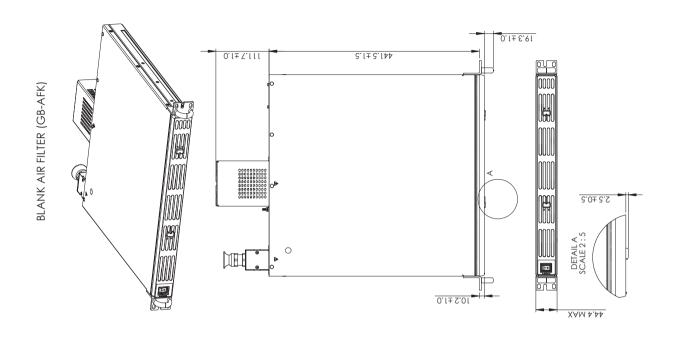
### Outline Drawing GENESYS™ GSP10kW

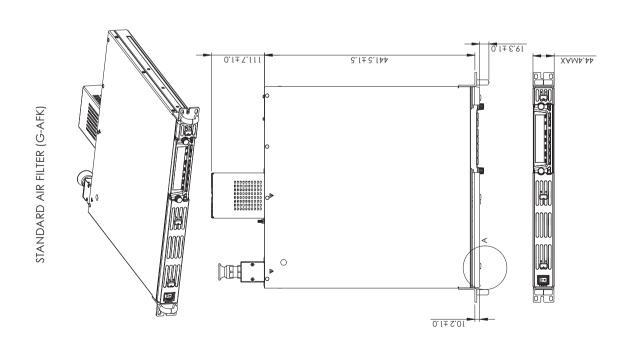


### Outline Drawing GENESYS™ GSP15kW



# Outline Drawing **G**ENESYS<sup>™</sup> Air Filter Kit





### Front Panel Air Filter Assembly

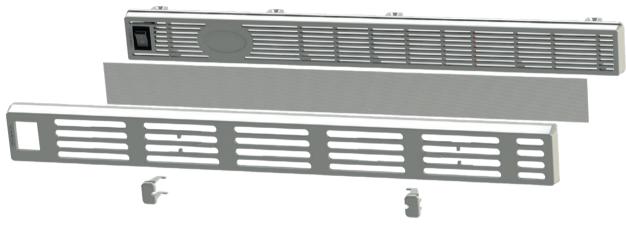
Front panel dust cover is available for dusty air environment applications

Dust cover is removable snap-in filter (for easy maintenance)

Part Number (for standard unit): G-AFK



• Part Number (for unit with blank front panel): GB-AFK



For GSP 10kW/15kW series order part number: GSP10kW-AFK / GSP15kW-AFK

#### **Accessories**

1. Front Panel dust filter / Field installation kit:

#### **Technical Specifications: Unit with Air Filter Assembly Installed**

- · Derating (environmental):
- · Operating Temperature
- For all models (except 10V): 0°C to +40°C full load; For 10V model: 0°C to +30°C, derate 5A/°C for 30°C < Ta < +40°C
- Altitude
- For all models (except 10V): derate 2°C/100m or 2% of load/100m (above 2000m)
- For 10V model: derate 1°C/100m or 2% of load/100m (above 2000m)

#### **Filter Foam Technical Specifications**

- · Material: reticulated polyurethane foam
- Thickness:3.8 mm
- Porosity: 45ppi
- Operating Temperature Range: 0°C to +60°C
- Storage Temperature Range: -40°C to +85°C
- Humidity: 95% RH

#### **Air Filter Assembly Components**

Standard Unit (P/N: G-AFK)

- · Air Filter Cover (two pieces)
- Slide Button #1 (two locations: near AC ON/OFF switch and near left-hand side of front panel display)
- · Slide Button #2 (one location: right-hand side of front panel display)
- Filter foam (two pieces)

#### Blank Front Panel Unit (P/N: GB-AFK)

- · Air Filter Cover (one piece)
- Slide Button #1 (two locations) Filter foam (one piece)

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# TDK·Lambda

