



**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



TDK-Lambda

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 (L)XI 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<sup>™</sup>/CVI, LabVIEW<sup>™</sup>, 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**

**GENESYS™** 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).

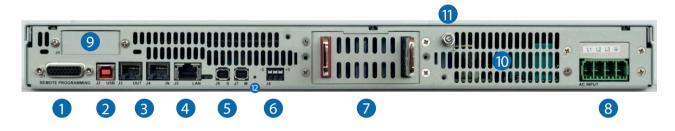
**OEM Designers** have a wide variety of Inputs and Outputs from which to select depending on application and location.

# **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**



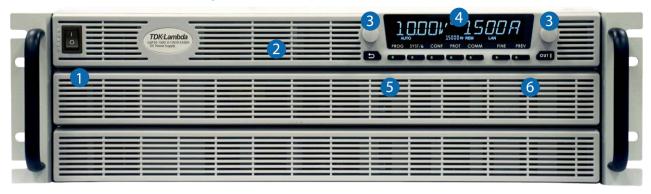
- 1. Input Power ON/OFF Switch
- 2. Air Intake allows zero stacking for maximum system flexibility and power density.
- 3. Reliable Detent Encoders for settings and Menu navigation.
- 4. High Contrast/Brightness display with wide viewing angle, 16 segment LCD
- 5. Function/Status LEDs: Active modes and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



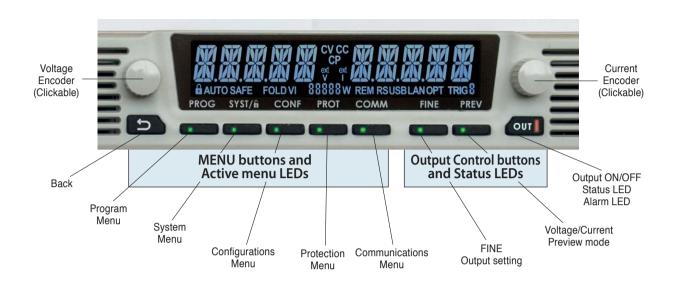
- 1. Input Power ON/OFF Switch
- 2. Air Intake allows zero stacking for maximum system flexibility and power density.
- 3. Reliable Detent Encoders for settings and Menu navigation.
- 4. High Contrast/Brightness display with wide viewing angle, 16 segment LCD
- 5. Function/Status LEDs: Active modes and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

# **GSP15kW Rear Panel Description**

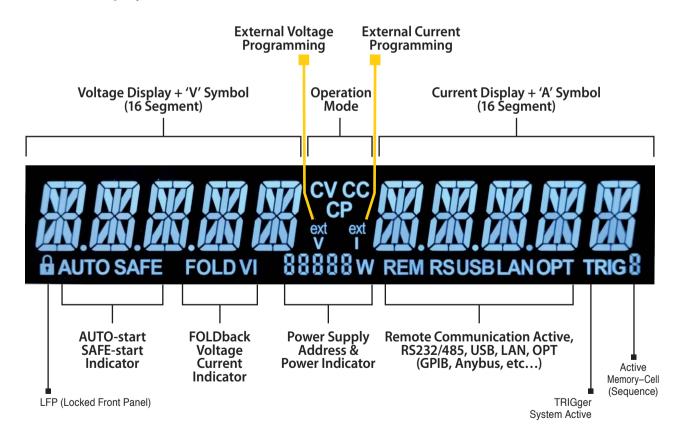


- 1. Isolated Analog Programming, Monitoring and other control connector (DB26 Female)
- 2. USB Interface connector (Type B).
- 3. RS-232/RS-485 IN/OUT Remote Digital Interface (RJ-45 type) for Multi-Drop connection
- 4. LAN (LXI 1.5) Interface connector (RJ-45 type with LAN status indicators).
- 5. Auto paralleling Bus connectors (mini I/O type) for connecting Master unit-to-Slave and Slave unit-to-Slave unit.
- 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



# **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.





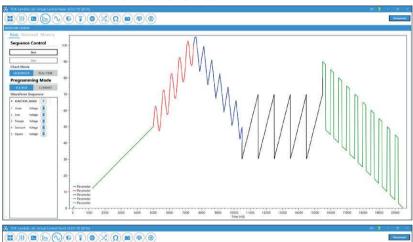


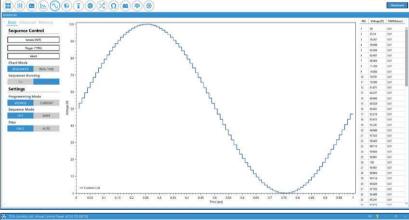
# **Graphical User Interface**

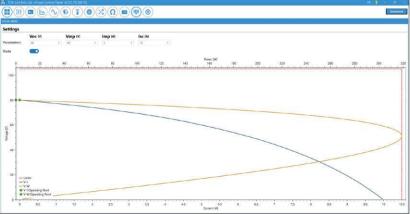
Advanced "Virtual Control Panel" allows programming and monitoring unit(s) with or without front panel display.

- 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.

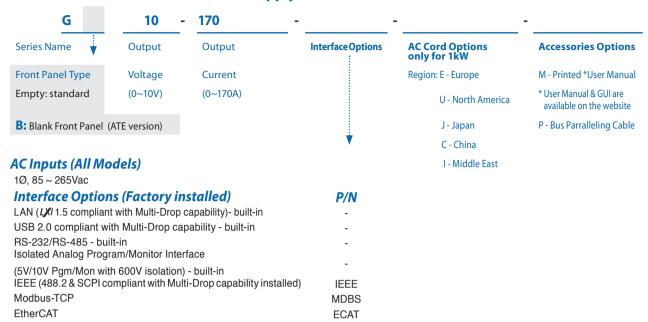
# **GUI Waveform Profile Generator**







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



IS420

## Models 1kW

(4mA-20mA with 600V isolation)

Isolated Analog Current Program/Monitor Interface

	-						
Model	Voltage (V)	Current (A)	Power (W)	Model	Voltage (V)	Current (A)	Power (W)
G10-100	0~10V	0~100	1000	G80-12.5	0~80V	0~12.5	1000
G20-50	0~20V	0~50	1000	G100-10	0~100V	0~10	1000
G30-34	0~30V	0~34	1020	G150-7	0~150V	0~7	1050
G40-25	0~40V	0~25	1000	G300-3.5	0~300V	0~3.5	1050
G60-17	0~60V	0~17	1020	G600-1.7	0~600V	0~1.7	1020

## Models 1.7kW

Model	Voltage (V)	Current (A)	Power (W)	Model
G10-170	0~10V	0~170	1700	G80-21
G20-85	0~20V	0~85	1700	G100-17
G30-56	0~30V	0~56	1680	G150-1
G40-42	0~40V	0~42	1680	G300-5
G60-28	0~60V	0~28	1680	G600-2

Model	Voltage (V)	Current (A)	Power (W)
G80-21	0~80V	0~21	1680
G100-17	0~100V	0~17	1700
G150-11.2	0~150V	0~11.2	1680
G300-5.6	0~300V	0~5.6	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**<sup>™</sup> power supplies.

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

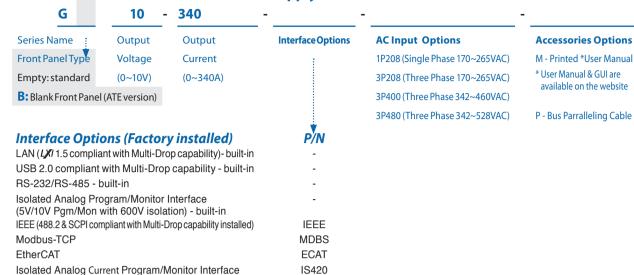
# 3. Bus Paralleling cable

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

#### 4. User Manual

Printed User Manual	G/M

# 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™** power supplies.

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

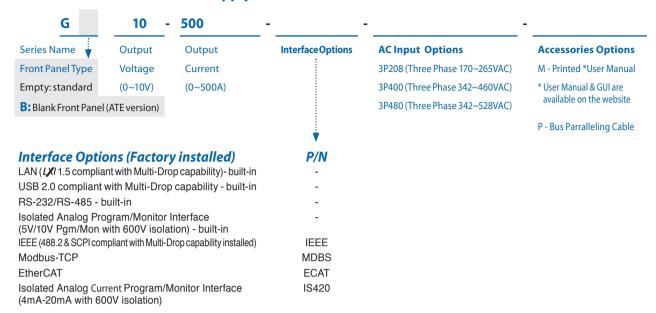
# 3. Bus Paralleling cable

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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)	М
G10-500	0~10V	0~500	5000	G
G20-250	0~20V	0~250	5000	G
G30-170	0~30V	0~170	5100	G
G40-125	0~40V	0~125	5000	G.
G50-100	0~50V	0~100	5000	G4
G60-85	0~60V	0~85	5100	G.
G80-65	0~80V	0~65	5200	G

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

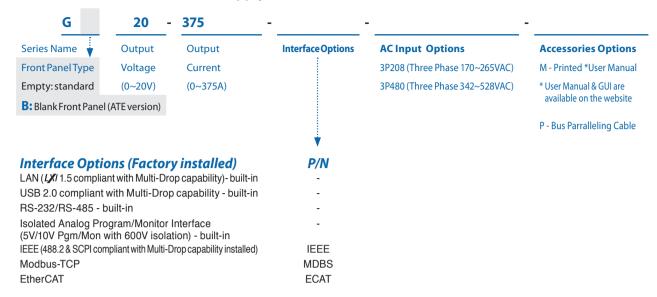
Printed User Manual	G/M

# 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

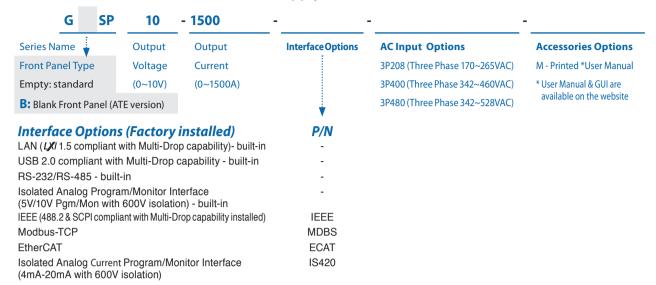
# 4. User Manual

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<sup>™</sup> 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

Moa	lel	s 1	.5	kИ	/
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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)
GH80-12.5	0~80V	0~12.5	1000
GH100-10	0~100V	0~10	1000
GH150-7	0~150V	0~7	1050
GH300-3.5	0~300V	0~3.5	1050
GH600-1.7	0~600V	0~1.7	1020

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)	V	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	7~63Hz, Single	Phase						
2. Maximum Input current at 100% load (100/200)	A	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)	A A	Less than 50A		0//09	0//09	0//09	0//09	00/90	00/90	00/90	00/90
		1	1			- 10		100			400
CONSTANT VOLTAGE MODE	V	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*6) 2.Max. Load regulation (*7)		0.01% of rate 0.01% of rate		-							
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	9	20	100
5.Temperature coefficient	_			ut voltage, foll				12	,	20	100
6.Temperature stability				hrs interval fol				e load & temr	)		
7. Warm-up drift				utput voltage+							
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 withir	n 0.5% of its ra	ted output fo	r a load change	e 10~90% of r	ated output c	urrent. Outpu	t set-point:
				s than 1mS, for	models up to	and including	100V. 2mS, fo و	r models abo	ve 100V.		
12.Start up delay	Sec	Less than 6 Se	ec								
13.Hold-up time	mS				20r	ns 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)		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	rom rated outp	out current, fol	lowing 30 mir	nutes warm-up	ρ.			
3. Temperature coefficient	TTW/ C	150V~600V	70PPM/°C fro	om rated outpu	ıt current, follo	owing 30 min	utes warm-up.				
6.Temperature stability		0.01% of rate	d lout over 8h	rrs. interval foll	lowing 30 min	utes warm-up	). Constant line	e, load & temp	erature.		
7. Warm-up drift		_		n +/-0.25% of r					n.		
		150V~600V: L	ess than +/-0	0.15% of rated o	output current	over 30 minu	tes following p	power on.			
ANALOG PROGRAMMING AND MONITORING (ISOLATE	D FROM T	HE OUTPUT)									
1.Vout voltage programming		0~100%, 0~5	V or 0~10V, us	ser selectable.	Accuracy and	linearity: +/-0	.15% of rated \	Vout.			
2.lout voltage programming (*14)		0~100%, 0~5	V or 0~10V, us	ser selectable.	Accuracy and	linearity: +/-0	.4% of rated lo	out.			
3. Vout resistor programming		0~100%, 0~5	/10Kohm full	scale, user sele	ectable. Accura	acy and linear	ity: +/-0.5% of	rated Vout.			
4.lout resistor programming (*14)		0~100%, 0~5	/10Kohm full	scale, user sele	ectable. Accura	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	ted Vout.					
6.Output current monitor (*14)		0~5V or 0~10	V, user select	able. Accuracy	: +/-0.5% of ra	ted lout.					
SIGNALS AND CONTROLS (ISOLATED FROM THE OUTP	JT)										
1. Power supply OK #1 signal		Power supply	output mon	itor. Open colle	ector. Output (	On: On. Outpi	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: 10	0mA.	
3. LOCAL/REMOTE Analog control		Enable/Disab	le analog pro	gramming cor	ntrol by electri	ical signal or d	lry contact. Re	mote: 0~0.6V	or short. Loca	al: 2~30V or op	en.
4. LOCAL/REMOTE Analog signal		analog progr	amming conti	rol monitor sigi	nal. Open colle	ctor. Remote:	On. Local: Off.	Maximum Vo	ltage: 30V, Ma:	ximum Sink Cu	rrent: 10mA.
5. ENABLE/DISABLE signal		Enable/Disab	le PS output	by electrical si	gnal or dry cor	ntact. 0~0.6V	or short, 2~30\	√ or open. Use	er selectable l	ogic.	
6. INTERLOCK (ILC) control		Enable/Disab	le PS output	by electrical si	gnal or dry cor	ntact. Remote	: 0~0.6V or sho	ort. Local: 2~3	0V or open.		
7. Programmed signals		Two open dra	ain programm	nable signals. N	/laximum volta	age 25V, Maxi	mum sink curr	ent 100mA (Si	hunted by 27\	/ zener)	
8. TRIGGER IN / TRIGGER OUT signals				ut voltage = 0						level input =	5V positive
				ninimum. Tr,T		ium, wiin del	ay between 2	z puises ims			
9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal				6V/2~30V or dr pedance)=Fail	y conidct.						
		+~>v≐UK, UV	(MI MUOOOC)	Jeuance)=Fall							
FUNCTIONS AND FEATURES											
1. Parallel operation				units in Master			ction manual.				
2. Series operation		-		ts. Refer to inst					-		
3. Daisy chain				nected in Dais	<i>,</i> ,						
4. Constant power control			<u> </u>	o a proggramm							
5. Output resistance control				. Resistance rar	-				•		
6. Slew rate control		communicati	ne Output rise ion ports or th	e and Output fa he front panel.	ווג siew rate. Pr	:ogramming r	ange: 0.0001~	YYY.YY V/mSe	c. or A/mSec.	rrogramming	via tne
7. Arbitrary waveforms				can be stored i		ells. Activatio	n by command	d via the comr	nunication po	orts or by the fi	ont panel.
PROGRAMMING AND READBACK (USB, LAN,	V	10	20	30	40	60	80	100	150	300	600
RS232/485, Optional IEEE (*16) Interfaces)  1.Vout programming accuracy (*15)		0.05% of rate									
					ted output con	rrent					
2.lout programming accuracy (*14)		0.1% of actua 0.002% of rat		ent+0.2% of rat	.ea output cur	ient					
3.Vout programming resolution 4.lout programming resolution		0.002% of rat									
5.Vout readback accuracy			ed output cui								
,			output von	-					0.25% of rate	ed output curr	ent
		10.270 OI TOLEU	- output curie	***					I SIES / O OI I ale	. a output cull	
6.lout readback accuracy (*14)  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. Nout readback resolution (of rated output voltage) 8. lout readback resolution (of rated output current))	% %	0.011% 0.011%	0.006%	0.004%	0.003% 0.005%	0.002% 0.007%	0.002% 0.009%	0.011% 0.011%	0.007% 0.015%	0.004%	0.002% 0.007`%

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

OUTPUT RATING	G	10-170	20-85	30-56	40-42	60-28	80-21	100-17	150-11.2	300-5.6	600-2.8
1.Rated output voltage(*1)	V	10	20	30	40	60	80	100	150	300	600
2.Rated output current (*2)	A W	170	85	56	42	28	21	17	11.2	5.6	2.8
3.Rated output power	W	1700	1700	1680	1680	1680	1680	1700	1680	1680	1680
INPUT CHARACTERISTICS  1.Input voltage/freg. (*3)	V	10 85~265Vac c	20 ontinuous 47	~63Hz,Single	40 Phase	60	80	100	150	300	600
2. Maximum Input current at 100% load (100/200)	Α	20/10	ontinaoas, n	03112/3111910	THUSE						
3.Power Factor (Typ)			c 0.98 @ 200	Vac, rated out	put power.						
4.Efficiency at 100 Vac/200Vac, rated 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	١								
CONSTANT VOLTAGE MODE	V	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*6)		0.01% of rate	d output volta	age							
2.Max. Load regulation (*7)		0.01% of rate	d output volta	age +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-uរ	).				
6.Temperature stability		0.01% of rate	d Vout over 81	nrs interval fol	lowing 30 min	iutes warm-u	o. Constant line	e, load & temp	0.		
7. Warm-up drift		Less than 0.0	1% of rated οι	tput voltage-	-2mV over 30 r	minutes follov	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	20	20	20	20	20	20	25	50	100	100
10.Down-prog.response time: Full load (*12)	mS	30	30	60	60	60	60	60	120	220	200
No load (*12)	mS	450	700	1000	1200	1500	1700	2600	2900	4600	4600
11.Transient response time	mS						r a load chang g 100V. 2mS, fo		rated output cove 100V.	urrent. Outpu	t set-point:
12.Start up delay	Sec	Less than 6 Se					,				
13.Hold-up time	mS				16	ms typical, rat	ed output pov	ver			
CONSTANT CURRENT MODE	V	10	20	30	40	60	00	100	150	200	600
		10			40	60	80	100	150	300	600
1.Max. Line regulation (*6)  2.Max. Load regulation (*9)		0.01% of rate									
3.Ripple r.m.s. @ rated voltage. B.W 5Hz~1MHz. (*13)	mA	≤420	≤160	≤100	≤60	≤50	≤30	≤20	≤10	≤8	≤5
3.htppie i.iii.s. @ rated voltage. b.w 3112~11vii12. (13)	IIIA						nutes warm-u		210	≥0	23
5.Temperature coefficient	PPM/°C						utes warm-up.				
6.Temperature stability							o. Constant line		nerature		
,							minutes follo				
7. Warm-up drift		150V~600V: L						51	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
				.15% of rated (	output current	over 30 minu	tes following i	power on.			
ANALOG PROGRAMMING AND MONITORING (IGOLATE)		LIE OLITPLITY		.15% of rated o	output current	over 30 minu	tes following	power on.			
ANALOG PROGRAMMING AND MONITORING (ISOLATED	T						-				
1. Vout voltage programming		0~100%, 0~5	V or 0~10V, us	ser selectable.	Accuracy and	linearity: +/-0	1.15% of rated \	Vout.			
1.Vout voltage programming 2.lout voltage programming (*14)		0~100%, 0~5 0~100%, 0~5	V or 0~10V, us V or 0~10V, us	ser selectable. ser selectable.	Accuracy and Accuracy and	linearity: +/-0	1.15% of rated \	Vout.			
Nout voltage programming     Liout voltage programming (*14)     Nout resistor programming		0~100%, 0~5 0~100%, 0~5 0~100%, 0~5	V or 0~10V, us V or 0~10V, us /10Kohm full	ser selectable. ser selectable. scale, user sel	Accuracy and Accuracy and ectable. Accur	linearity: +/-0 linearity: +/-0 acy and linear	1.15% of rated \\ 1.4% of rated lo ity: +/-0.5% of	Vout. out. rated Vout.			
1. Vout voltage programming 2. lout voltage programming (*14) 3. Vout resistor programming 4. lout resistor programming (*14)		0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5	V or 0~10V, us V or 0~10V, us /10Kohm full /10Kohm full	ser selectable. ser selectable. scale, user selo scale, user selo	Accuracy and Accuracy and ectable. Accura	linearity: +/-C linearity: +/-C acy and linear acy and linear	1.15% of rated \	Vout. out. rated Vout.			
1. Vout voltage programming 2. lout voltage programming (*14) 3. Vout resistor programming 4. lout resistor programming (*14) 5. Output voltage monitor		0~100%, 0~5 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 /10Kohm full /10Kohm full V, user select	ser selectable. ser selectable. scale, user sele scale, user sele able. Accuracy	Accuracy and Accuracy and ectable. Accura ectable. Accura r: +/-0.5% of ra	linearity: +/-0 linearity: +/-0 acy and linear acy and linear ted Vout	1.15% of rated \\ 1.4% of rated lo ity: +/-0.5% of	Vout. out. rated Vout.			
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)		0~100%, 0~5 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 /10Kohm full /10Kohm full V, user select	ser selectable. ser selectable. scale, user sele scale, user sele able. Accuracy	Accuracy and Accuracy and ectable. Accura	linearity: +/-0 linearity: +/-0 acy and linear acy and linear ted Vout	1.15% of rated \\ 1.4% of rated lo ity: +/-0.5% of	Vout. out. rated Vout.			
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)  SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPUT)	   	0~100%, 0~5 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 /10Kohm full /10Kohm full V, user selects V, user selects	ser selectable. ser selectable. scale, user sele scale, user sele able. Accuracy able. Accuracy	Accuracy and Accuracy and ectable. Accuracy ectable. Accuracy r: +/-0.5% of rate	linearity: +/-C linearity: +/-C acy and linear acy and linear ited Vout ed lout.%.	.15% of rated \\.4% of rated lc ity: +/-0.5% of ity: +/-0.5% of	Vout. out. rated Vout. rated lout.		5115	
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)  SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPU 1. Power supply OK #1 signal	   	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	V or 0~10V, us V or 0~10V, us /10Kohm full /10Kohm full V, user select v, user select	ser selectable. ser selectable. scale, user sele scale, user sele able. Accuracy able. Accuracy	Accuracy and Accuracy and ectable. Accuracy ectable. Accuracy r: +/-0.5% of rate ector. Output	linearity: +/-C linearity: +/-C acy and linear acy and linear ted Vout ed lout.%.	.15% of rated \(\).4% of rated \(\)(15% of rated \(\)(15) of ity: +/-0.5% of ity: +/-0.5% of \(\)	Vout. rated Vout. rated lout.	e: 30V, Maxim		nt: 10mA.
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)  SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPU 1. Power supply OK #1 signal 2. CV/CC signal	    TT)	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	V or 0~10V, us V or 0~10V, us /10Kohm full V, user select: V, user select: v output moni or. Open colle	ser selectable. ser selectable. scale, user sele scale, user sele able. Accuracy able. Accuracy itor. Open coll ctor. CC mode	Accuracy and Accuracy and Accuracy and ectable. Accuracy extends accuracy exte	linearity: +/-C linearity: +/-C acy and linear acy and linear ted Vout ed lout.%. On: On. Outpu	.15% of rated \(\).4% of rated \(\) ity: +/-0.5% of ity: +/-0.5% of \(\) ity: +/-0.5% of \(\) ut Off: Off. Max \(\) m Voltage: 30\(\)	Vout. Frated Vout. Frated lout. Kimum Voltag	ink Current: 10	DmA.	
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)  SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPU 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control		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 Power supply CV/CC Monito Enable/Disab	V or 0~10V, us V or 0~10V, us /10Kohm full /10Kohm full V, user select V, user select r output moni or. Open colle	ser selectable. ser selectable. scale, user sele scale, user sele able. Accuracy able. Accuracy itor. Open coll ctor. CC mode gramming co	Accuracy and Accuracy and Accuracy and ectable. Accur ectable. Acc	linearity: +/-C linearity: +/-C acy and linear acy and linear acted Vout ed lout.%. On: On. Outpo e: Off. Maximu ical signal or or	.15% of rated \(\).4% of rated \(\)!.4% of rated \(\)!. ity: +/-0.5% of \(\) ity: +/-0.5% of \(\) at Off: Off. Max m Voltage: 30\(\) lry contact. Re	Vout.  Frated Vout.  Frated lout.  Kimum Voltag V, Maximum S mote: 0~0.6V	ink Current: 10 or short. Loca	0mA. l: 2~30V or op	en.
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)  SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPU 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal	T)	0~100%, 0~5 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 CV/CC Monite Enable/Disab analog progra	V or 0~10V, us V or 0~10V, us /10Kohm full /10Kohm full V, user select V, user select r output moni or. Open colle ele analog pro	ser selectable. ser selectable. scale, user sele scale, user sele able. Accuracy able. Accuracy itor. Open coll ctor. CC mode gramming co ol monitor sig	Accuracy and Accuracy and Accuracy and ectable. Accur- ectable. Accur- r: +/-0.5% of rate ector. Output v: On. CV mode introl by electrinal. Open colle	linearity: +/-C linearity: +/-C acy and linear acy and linear act d Vout ed lout.%. On: On. Output e: Off. Maximu ical signal or c ector. Remote:	at Off: Off. Max m Voltage: 30' lry contact. Re On. Local: Off.	Vout.  put.  rated Vout.  rated lout.  simum Voltag V, Maximum S mote: 0~0.6V Maximum Vo	iink Current: 10 or short. Loca Itage: 30V, Max	0mA. ll: 2~30V or op kimum Sink Cu	en.
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)  SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPU 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal		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 Power supply CV/CC Monite Enable/Disab analog progra	V or 0~10V, us V or 0~10V, us /10Kohm full /10Kohm full V, user select: v, user select: v output moni or. Open colle ele analog pro amming contr	ser selectable. ser selectable. scale, user sele scale, user sele able. Accuracy able. Accuracy itor. Open coll ctor. CC mode gramming co ol monitor sig	Accuracy and Accuracy and Accuracy and Accuracy and Accuracy and Accuractable. Accuractable. Accuractable. Accuractable. Accuractable. Accuractable. Accuractable. Accuractable. Accuractable. On. CV mode antrol by electrinal. Open collegual or dry collegual or d	linearity: +/-C linearity: +/-C acy and linear acy and linear acy and linear act d lout.%.  On: On. Output act off. Maximut ical signal or off. actor. Remote: actor. Remote: actor. C~0.6V	at Off: Off. Max m Voltage: 30' lry contact. Re On. Local: Off. 230'	Vout. Frated Vout. Frated lout.  Kimum Voltag V, Maximum S mote: 0-0.6V Maximum Vo	iink Current: 10' or short. Loca Itage: 30V, Max er selectable Ic	0mA. ll: 2~30V or op kimum Sink Cu	en.
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)  SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPU 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	T)	0~100%, 0~5 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 Power supply Enable/Disab analog progra Enable/Disab Enable/Disab	V or 0~10V, us V or 0~10V, us V or 0~10V, us V or 0~10V, us V 10Kohm full V, user select. V output monior. Open colle le analog pro amming contrelle le PS output le le PS output le	ser selectable. ser selectable. scale, user sele scale, user sele able. Accuracy able. Accuracy itor. Open coll ctor. CC mode gramming co of monitor sig by electrical si by electrical si	Accuracy and Accur	linearity: +/-C linearity: +/-C acy and linear acy and linear acy and linear ted Vout ed lout.%. On: On. Outpress off. Maximu ical signal or of cector. Remotes ntact. 0~0.6V ntact. Remote	at Off: Off. Max m Voltage: 30' Iry contact. Re On. Local: Off. Or short, 2–30' : 0~0.6V or short	vout. put. rated Vout. rated lout.  wimum Voltag V, Maximum S mote: 0~0.6V Maximum Vo V or open. Use	iink Current: 10 or short. Loca Itage: 30V, Max er selectable Io 10V or open.	OmA. II: 2~30V or op kimum Sink Cu ogic.	en.
1.Vout voltage programming 2.lout voltage programming (*14) 3.Vout resistor programming 4.lout resistor programming (*14) 5.Output voltage monitor 6.Output voltage monitor (*14)  SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPU 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	T)	0~100%, 0~5 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 cV/CC Monite Enable/Disab analog progra Enable/Disab Enable/Disab Two open dra	V or 0~10V, us V or 0~10V, us V or 0~10V, us V or 0~10V, us V or 0~10V, user select. V, user s	ser selectable. ser selectable. scale, user sele scale, u	Accuracy and Accuracy and Accuracy and Accuracy and ectable. Accuracy: +/-0.5% of rate: +/-0.5 of rate: -/-0.5	linearity: +/-C linearity: +/-C acy and linear acy and linear acy and linear ted Vout d lout.%. On: On. Outpi c: Off. Maximu ical signal or o cetor. Remote: ntact. 0~0.6V ntact. Remote age 25V, Maxi	at Off: Off. Max m Voltage: 30 lry contact. Re On. Local: Off. cr short, 2–30 : 0~0.60 or short	vout.  put. rated Vout. rated lout.  rated lout.  kimum Voltag V, Maximum S  mote: 0-0.6V  Maximum Vo  V or open. Use ort. Local: 2-3 ent 100mA (S	ink Current: 10 or short. Loca Itage: 30V, Mazer selectable lo 20V or open. hunted by 27V	OmA. II: 2~30V or op kimum Sink Cu ogic. / zener)	en. irrent: 10mA.
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)  SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPU 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	T)	0~100%, 0~5 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 CV/CC Monite Enable/Disab analog progra Enable/Disab Enable/Disab Enable/Disab Enable/Disab Enable/Disab	V or 0~10V, us v select. V, user select. V output monions. Open collele analog proamming contrile PS output lie PS output lie PS output lie PS output lie programm we level input welvel input velvel velve	ser selectable. ser selectable. scale, user sele scale, user sele able. Accuracy itor. Open coll ctor. CC mode gramming co ol monitor sig oy electrical si oy electrical si able signals. N t voltage = (	Accuracy and Accuracy and Accuracy and Accuracy and ectable. Accuracy and Accuracy are also as a section of the Accuracy are also as a section of the Accuracy are also as a section of the Accuracy and	linearity: +/-C linearity: +/-C acy and linear acy and linear ted Vout do lout.%. On: On. Output ical signal or c ector. Remote: ntact. 0~0.6V ntack. Remote:	at Off: Off. Max m Voltage: 30 lry contact. Re On. Local: Off. cr short, 2–30 : 0~0.60 or short	wout.  put.  rated Vout.  rated lout.  kimum Voltag V, Maximum S  mote: 0~0.6V  Maximum Vo  V or open. Use port. Local: 2~3  ert 100mA (S  e = 2.5V, Max	ink Current: 10 or short. Loca Itage: 30V, Mazer selectable lo 10V or open. hunted by 27V kimum high I	OmA. II: 2~30V or op kimum Sink Cu ogic. / zener)	en. Irrent: 10mA.
1.Vout voltage programming 2.lout voltage programming (*14) 3.Vout resistor programming (*14) 5.Output voltage monitor 6.Output voltage monitor (*14)  SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPU 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	T)	0~100%, 0~5 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 CV/CC Monite Enable/Disab analog progra Enable/Disab Enable/Disab Enable/Disab Enable/Disab Enable/Disab	V or 0~10V, us v or 0	ser selectable. ser selectable. scale, user sele scale, user sele able. Accuracy able. Accuracy itor. Open coll ctor. CC mode gramming co- ol monitor sig by electrical si py electrical si able signals. N ut voltage = ( hinimum. Tr,1	Accuracy and Accuracy and Accuracy and Accuracy and ectable. Accuracy and Accuracy	linearity: +/-C linearity: +/-C acy and linear acy and linear ted Vout do lout.%. On: On. Output ical signal or c ector. Remote: ntact. 0~0.6V ntack. Remote:	at Off: Off. Max m Voltage: 30' lry contact. Re On. Local: Off. or short, 2–30' : 0~0.6V or sho mum sink curr input voltage	wout.  put.  rated Vout.  rated lout.  kimum Voltag V, Maximum S  mote: 0~0.6V  Maximum Vo  V or open. Use port. Local: 2~3  ert 100mA (S  e = 2.5V, Max	ink Current: 10 or short. Loca Itage: 30V, Mazer selectable lo 10V or open. hunted by 27V kimum high I	OmA. II: 2~30V or op kimum Sink Cu ogic. / zener)	en. irrent: 10mA.
1.Vout voltage programming 2.lout voltage programming (*14) 3.Vout resistor programming (*14) 5.Output voltage monitor 6.Output voltage monitor 6.Output current monitor (*14)  SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPU 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		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 Power supply CV/CC Monitt Enable/Disab analog progra Enable/Disab Enable/Disab Two open dra Maximum le edge trigge	V or 0~10V, us V or 0~10V, user select.  V output monior. Open colle le analog proamming control le PS output I le PS output I lin programm we level input in programm r: tw=10us m: tw=10us m: fvoltage: 0~0.00	ser selectable. ser selectable. scale, user sele scale, user sele able. Accuracy able. Accuracy itor. Open coll ctor. CC mode gramming co ol monitor sig by electrical si by electrical si able signals. N at voltage = c ininmum. Tr, 50/2~30V or di	Accuracy and Accuracy and Accuracy and Accuracy and ectable. Accuracy and Accuracy	linearity: +/-C linearity: +/-C acy and linear acy and linear ted Vout do lout.%. On: On. Output ical signal or c ector. Remote: ntact. 0~0.6V ntack. Remote:	at Off: Off. Max m Voltage: 30' lry contact. Re On. Local: Off. or short, 2–30' : 0~0.6V or sho mum sink curr input voltage	wout.  put.  rated Vout.  rated lout.  kimum Voltag V, Maximum S  mote: 0~0.6V  Maximum Vo  V or open. Use port. Local: 2~3  ert 100mA (S  e = 2.5V, Max	ink Current: 10 or short. Loca Itage: 30V, Mazer selectable lo 10V or open. hunted by 27V kimum high I	OmA. II: 2~30V or op kimum Sink Cu ogic. / zener)	en. Irrent: 10mA.
1.Vout voltage programming 2.lout voltage programming (*14) 3.Vout resistor programming (*14) 4.lout resistor programming (*14) 5.Output voltage monitor 6.Output current monitor (*14)  SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPU 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	T)	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 Power supply CV/CC Monite Enable/Disab analog progra Enable/Disab Enable/Disab Two open dra Maximum Ic edge trigge By electrical V	V or 0~10V, us V or 0~10V, user select.  V output monior. Open colle le analog proamming control le PS output I le PS output I lin programm we level input in programm r: tw=10us m: tw=10us m: fvoltage: 0~0.00	ser selectable. ser selectable. scale, user sele scale, user sele able. Accuracy able. Accuracy itor. Open coll ctor. CC mode gramming co ol monitor sig by electrical si by electrical si able signals. N at voltage = c ininmum. Tr, 50/2~30V or di	Accuracy and Accuracy and Accuracy and Accuracy and ectable. Accuracy and Accuracy	linearity: +/-C linearity: +/-C acy and linear acy and linear ted Vout do lout.%. On: On. Output ical signal or c ector. Remote: ntact. 0~0.6V ntack. Remote:	at Off: Off. Max m Voltage: 30' lry contact. Re On. Local: Off. or short, 2–30' : 0~0.6V or sho mum sink curr input voltage	wout.  put.  rated Vout.  rated lout.  kimum Voltag V, Maximum S  mote: 0~0.6V  Maximum Vo  V or open. Use port. Local: 2~3  ert 100mA (S  e = 2.5V, Max	ink Current: 10 or short. Loca Itage: 30V, Mazer selectable lo 10V or open. hunted by 27V kimum high I	OmA. II: 2~30V or op kimum Sink Cu ogic. / zener)	en. Irrent: 10mA.
1.Vout voltage programming 2.lout voltage programming (*14) 3.Vout resistor programming (*14) 5.Output voltage monitor 6.Output voltage monitor 6.Output current monitor (*14)  SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPU 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	T)	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 Power supply CV/CC Monitt Enable/Disab analog progra Enable/Disab Two open dra Two open dra Maximum le dege trigge By electrical \ 4~5V=OK, 0V	V or 0~10V, us V ot 0~10V, user select. V output moni or. Open colle le analog pro- samming contr le PS output li le PS output li programm ow level input r: tw=10us m Voltage: 0~0.6 (5000hm imp	ser selectable. ser selectable. scale, user sele scale scale, user sele scale scal	Accuracy and Accur	linearity: +/-C linearity: +/-C acy and linear acy and linear acy and linear ted Vout ed lout.%. On: On. Outpp e: Off. Maximu ical signal or o ector. Remote: ntact. 0~0.6V ntact. Remote age 25V, Maxim n high level num, Min del	at Off: Off. Max m Voltage: 30' lry contact. Re On. Local: Off. or short, 2~30' consider the current of the cur	wout.  put.  rated Vout.  rated lout.  wimum Voltag V, Maximum S mote: 0-0.6V Maximum Vo V or open. Use ort. Local: 2~3 ent 10mA (5 e = 2.5V, Max 2 pulses 1 ms	ink Current: 10 or short. Loca Itage: 30V, Mazer selectable lo 10V or open. hunted by 27V kimum high I	OmA. II: 2~30V or op kimum Sink Cu ogic. / zener)	en. Irrent: 10mA.
1.Vout voltage programming 2.lout voltage programming (*14) 3.Vout resistor programming (*14) 4.lout resistor programming (*14) 5.Output voltage monitor 6.Output current monitor (*14)  SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPU 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		0~100%, 0~5 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 Enable/Disab analog progra Enable/Disab Enable/Disab Two open dra Maximum Ic edge trigge By electrical V 4~5V=OK, 0V	V or 0~10V, us v select. V, user s	ser selectable. ser selectable. scale, user selvable. scale, user selvable. Accuracy able. Accuracy stor. Open collictor. CC mode gramming co- ol monitor sig oy electrical si oby electrical si able signals. N ut voltage = ( ninimum. Tr, TsV/2~30V or di pedance)=Fail units in Mastei	Accuracy and Accuracy and Accuracy and Accuracy and ectable. Accur	linearity: +/-C linearity: +/-C acy and linear acy and linear acy and linear ted Vout d lout.%.  On: On. Outpt :: Off. Maximu ical signal or oc tetor. Remote ntact. 00.6V ntact. Remote age 25V, Maxi n high level num, Min del	at Off: Off. Max m Voltage: 30' lry contact. Re On. Local: Off. or short, 2–30' : 0~0.6V or sho mum sink curr input voltage	wout.  put.  rated Vout.  rated lout.  wimum Voltag V, Maximum S mote: 0-0.6V Maximum Vo V or open. Use ort. Local: 2~3 ent 10mA (5 e = 2.5V, Max 2 pulses 1 ms	ink Current: 10 or short. Loca Itage: 30V, Mazer selectable lo 10V or open. hunted by 27V kimum high I	OmA. II: 2~30V or op kimum Sink Cu ogic. / zener)	en. Irrent: 10mA.
1.Vout voltage programming 2.lout voltage programming (*14) 3.Vout resistor programming (*14) 4.lout resistor programming (*14) 5.Output voltage monitor 6.Output current monitor (*14)  SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPU 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	T)	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 Power supply CV/CC Monite Enable/Disab analog progra Enable/Disab Two open dra Maximum Ic edge trigge By electrical V 4~5V=OK, 0V	V or 0~10V, us V or 0~10V, us V or 0~10V, us V or 0~10V, us V or 0~10V, user select. V, user select. V, user select. V, user select. V, user select. V output monior. Open colle le analog pro amming contrible PS output I le PS output I le PS output I lin programm ow level input I will program over the I lous or 100tage: 0~0.0.6 (5000hm imp	ser selectable. ser selectable. scale, user selvable. scale, user selvable. Accuracy able. Accuracy stor. Open collector. CC mode gramming co ol monitor sig oby electrical si able signals. N art voltage = ( aninimum. Tr, 1 bs/12~30V or di bedance) = Fail units in Mastet ts. Refer to ins	Accuracy and Accuracy and Accuracy and Accuracy and ectable. Accuracy and ectable. Accuracy are accurate as a constant of the Accuracy and accuracy accuracy and	linearity: +/-C linearity: +/-C acy and linear acy and linear acy and linear ted Vout. d lout.%.  On: On. Outpty:: Off. Maximu ical signal or o cetor. Remote age 25V, Maxi n high level num, Min del	at Off: Off. Max m Voltage: 30' lry contact. Re On. Local: Off. or short, 2~30' lmust or short and short must be the short must be the short must be the short input voltage ay between	wout.  but. rated Vout. rated lout.  rated lout.  wimum Voltag V, Maximum S mote: 0~0.6V Maximum Vo	ink Current: 10 or short. Loca Itage: 30V, Mazer selectable lo 10V or open. hunted by 27V kimum high I	OmA. II: 2~30V or op kimum Sink Cu ogic. / zener)	en. Irrent: 10mA.
1.Vout voltage programming 2.lout voltage programming (*14) 3.Vout resistor programming (*14) 4.lout resistor programming (*14) 5.Output voltage monitor 6.Output current monitor (*14)  SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPU 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		0~100%, 0~5 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 Power supply CV/CC Monite Enable/Disab analog progra Enable/Disab Two open dra Maximum le edge trigge By electrical V 4~5V=OK, 0V Possible. Up t Possible. Up t Power supplie	V or 0~10V, us v select. V, user select. V, user select. V, user select. V, user select. Volume of the volume	ser selectable. ser selectable. scale, user sele scale, user sele able. Accuracy able. Accuracy stor. Open coll ctor. CC mode gramming co ol monitor sig by electrical si able signals. N at voltage = ( aninimum. Tr, T siV/2~30V or d bedance)=Fail units in Master ts. Refer to ins nected in Dais	Accuracy and Accuracy and Accuracy and Accuracy and Accuracy and Ectable. Accuracy and Accuracy	linearity: +/-C linearity: +/-C linearity: +/-C acy and linear ted Vout	at Off: Off. Max m Voltage: 30' lry contact. Re On. Local: Off. or short, 2–30' : 0~0.6V or sho mum sink curr input voltaga ay between .	wout.  but.  rated Vout.  rated lout.  simum Voltag V, Maximum S  mote: 0~0.6V  Maximum Vo  V or open. Use  port. Local: 2~3  ent 100mA (S  e = 2.5V, Max  2 pulses 1ms	ink Current: 10 or short. Loca Itage: 30V, May er selectable Ic i0V or open. hunted by 27V kimum high I i.	OmA. I: 2~30V or op kimum Sink Cu ogic. / zener) evel input =	en. Irrent: 10mA.
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1.Vout voltage programming 2.lout voltage programming (*14) 3.Vout resistor programming (*14) 4.lout resistor programming (*14) 5.Output voltage monitor 6.Output current monitor (*14)  SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPU 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 (*18) Interfaces) 1.Vout programming accuracy (*15) 2.lout programming accuracy (*14) 3.Vout programming accuracy (*14)	T)	0~100%, 0~5 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 Power supply CV/CC Monite Enable/Disab analog progra Enable/Disab Two open dra Maximum Ic edge trigge By electrical V 4~5V=OK, 0V Possible. Up t Possible. Two Power suppli Limits the ou Emulates seri Programmab communicati Profiles of up  10 0.05% of rate 0.1% of actua	V or 0~10V, us V ov V, user select.	ser selectable. ser selectable. scale, user selectable. scale. Accuracy stor. Open coll ctor. CC mode gramming co ol monitor sig by electrical si stable signals. N st voltage = ( sinimum. Tr, T sW/2~30V or di sedance)=Fail units in Master ts. Refer to ins nected in Dais a proggramn Resistance ra and Output f se front panel. can be stored  30 age ent+0.2% of ra tage	Accuracy and Accuracy and Accuracy and Accuracy and Accuracy and ectable. Accuracy and ectable. Accuracy are accurate and accurate accurat	linearity: +/-C linearity: +/-C acy and linear acy	at Off: Off. Max m Voltage: 300 Iry contact. Re On. Local: Off. or short, 2–300: 0~0.60 or short work of turn-on and the communing via the corrange: 0.0001~	vout.  but. rated Vout. rated Vout. rated lout.  rated lo	ink Current: 10 for short. Loca Itage: 30V, Mayer selectable lc 10V or open. hunted by 27V kimum high l 5. or the front par ports or the fro ec. or A/mSec.	OmA.  I: 2~30V or op kimum Sink Cupgic.  / zener) evel input =	en.  5V positive  via the  ront 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-o	down when p	ower supply o	hanges mode le in autostart	from CV or Po mode, by Pov	ower Limit to wer Switch, b	CC mode or fr	om CC or Powe	er Limit to CV nel or by com	mode. munication.
2.Over-voltage protection (OVP)			· ·							nel or by comn		
3.Over -voltage programming range		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 accuracy	су		+/-1% of rated	l output volta	age							
5.Output under voltage limit (UVL)			Prevents from	adjusting Vo	out below limi	t. Does not app	oly in analog	programming	g. Preset by fro	nt panel or co	mmunication	port.
6.Over temperature protection						y autostart mo			,			
7. Output under voltage limit (UVL)					ut below limit							
8. Output under voltage protection (U	JVP)					. P.S output tui ton, by rear pa			ge condition. F	Reset by AC inp	out recycle in a	autostart
FRONT PANEL												
1.Control functions			Multiple option	ons with 2 En	coders	-						
			Vout/lout/Por									
			OVP/UVL/UVF									
			Protection Fu	nctions - OVF	P. UVL.UVP. Fol	dback, OCL, El	IA, ILC					
						LAN,IEEE,RS2		or Optional o	ommunicatio	n interface.		
			Output ON/O			.,,	,,					
						Baud Rate, Ad	dress, IP and	communicati	on language.			
						tage/resistive				ning		
						Voltage/Curre						
2.Display						utput voltage						
						put current +/						
3.Front Panel Buttons Indications								N,CONFIGUR	ATION, SYSTE	M, SEQUENCER		
4. Front Panel Display Indications			Voltage, Curre (communicat	ent, Power, C\ on), RS/USB/	V, CC, CP, Exter LAN/IEEE com	rnal Voltage, Ex munication, Ti	ternal Curre	nt, Address, L Store Cell.	FP, Autostart, S	Safetstart, Folc	lback V/I, Rem	iote
ENVIRONMENTAL CONDITIONS			<u>'</u>									
1.Operating temperature			0~50°C, 100%	load								
<u> </u>			_	iluau.								
2.Storage temperature			-30~85°C								-	
3.Operating humidity		%	20~90% RH (r									
4.Storage humidity		%	10~95% RH (r	o condensat	ion).							
5.Altitude			Operating: 10	000ft (3000m	n), output curre	ent derating 29	6/100m or Ta	derating 1°C/	′100m above 2	000m. Non op	erating: 4000	Oft (12000m).
MECHANICAL												
1.Cooling			Forced air coo	ling by inter	nal fans. Air flo	ow direction: fr	om Front nar	nel to nower	upply rear			
2.Weight		kg	Less than 5kg			or uncertonin	om mone par	ici to power :	appi) ica.			
					(Without bu	usbars and bu	shars cover	٠)				
3.Dimensions (WxHxD)		mm				ousbars and b			Outline draw	ing).		
4.Vibration			MIL-810G, me	thod 514.6, P	rocedure I, tes	t condition Ar	nex C - 2.1.3.	1				
5.Shock					mSec. Unit is u							
			1 - 2 - 3 - 3 - 3 - 4 - 4 - 4 - 4 - 4 - 4 - 4	, 5 11								
SAFETY/EMC												
1.Applicable standards: Safe	ety G1kW/G1.7kW		UL61010-1, CS	A22.2 No.610	010-1, IEC61010	0-1, EN61010-1						
1.1. Interface classification G1k	kW/1.7kW					5, J6, J7, J8 (ser se) are hazard				on Hazardous. cation options	) are Non Haz	ardous.
1.2 Withstand voltage G1k	kW/1.7kW		Input - Grour 60V≤Vout≤10 Output & J8 Output & J8 100V <vout≤6 Output &amp; J8</vout≤6 	nd: 2835VDC 00V Models: (sense) - J1, (sense) - Gro 600V Models (sense) - J1, (sense) - Gro	C 1min. Input – Outp J2, J3, J4, J5 ound: 1500VI s: Input – Out J2, J3, J4, J5 ound: 2500VI	ut & J8 (sens 5, J6, J7 & J9 DC 1min, Inpu put & J8 (sens 5, J6, J7 & J9	e), J1, J2, J3 (communica t - Ground: 2 e), J1, J2, J3	1, J4, J5, J6, ation options 2835VDC 1m 3, J4, J5, J6,	J7 & J9 (comi ): 850VDC 1m nin. J7 and J9 (co	mmunication	otions): 4242'	VDC 1min,
1.3 Insulation resistance			100Mohm at 2	25°C, 70%RH.	. Output to Gro	ound 500VDC						
2.Conducted emmision					<del></del>	Annex H table I	I.1 . FCC Part	15-A. VCCI-A				
3.Radiated emission						Annex H table I						
	C (*4)		_					ceruit is-A,				
4. LIVIC COMPHANCE	C ( 4)		According to	LC/EINO1204	-3 Industrial er	minoniment						

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

		_			1					1		
OUTPUT RATING		G	10-265	20-135	30-90	40-68	60-45	80-34	100-27	150-18	300-9	600-4.5
1.Rated output voltage(*1)		V	10	20	30	40	60	80	100	150	300	600
2.Rated output current (*2)		A	265	135	90	68	45	34	27	18	9	4.5
3.Rated output power		W	2650	2700	2700	2720	2700	2720	2700	2700	2700	2700
INPUT CHARACTERISTICS		V	10	20	30	40	60	80	100	150	300	600
					~265Vac, 47~							
1.Input voltage/freg. 3 phase, 3 w	viro   Ground (*4)		3-Phase, 400	/ models: 342	2~460Vac, 47~	63Hz (Covers	380/400/415\	/ac)				
i.input voitage/freq. 5 priase, 5 w	vire + Ground (*4)		3-Phase, 480	/ models: 342	2~528Vac, 47~	63Hz (Covers	380/400/415/4	140/460/480Va	ac)			
					~265Vac, 47~i							
	3-Phase, 200V models:		10A @ 200Va									
2. Maximum Input current at	3-Phase, 400V models:		5.5A @ 380Va									
100% load	3-Phase, 480V models:	1	5.5A @ 380Va									
100761044	1-Phase, 200V models:		16.5A @ 200V									
	1-Filase, 2007 illoueis.				201/							
3.Power Factor (Typ)					30Vac, rated or							
A E(C: - /T ) (XE) (X22)		0/			c, rated outpu		00	00.5	00.5	00.5	00.5	00.5
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 50A	١								
CONSTANT VOLTAGE MODE		V	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*7)			0.01% of rate									
•												
2.Max. Load regulation (*8)			0.01% of rate							1		
3.Ripple and noise (p-p, 20MHz)	(*9)	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		PPM/°C	50PPM/°C fro	m rated outp	ut voltage, fo	llowing 30 mir	nutes warm-u	p.				
6.Temperature stability			0.01% of rate	d Vout over 8	hrs interval fo	llowina 30 mii	nutes warm-u	p. Constant lir	ne. load & ten	np.		
7. Warm-up drift								wing power or				
	uiro (*10)	V			T .	1	1			5	F	5
8.Remote sense compensation/w	vii e (* 10)		2	2	5	5	5	5	5	_	5	
9.Up-prog. Response time (*11)		mS	30	30	30	30	50	50	50	50	50	100
10.Down-prog.response time:	Full load (*11)	mS	50	50	80	80	80	100	100	100	100	200
10.Down-plog.response time:	No load (*12)	mS	450	600	800	900	1100	1300	2100	2000	3200	3100
11 Transient			Time for outr	out voltage to	recover withi	n 0.5% of its ra	ated output fo	or a load chand	ge 10~90% o	frated output	current. Outn	ut set-point:
11.Transient response time		mS	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									
, ,										-		
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	d output curr	rent.							
3.Ripple r.m.s. @ rated voltage. 3-	-Phase (*14)	mA	≤800	<u>≤</u> 450	≤300	≤150	≤100	≤70	≤45	≤30	≤12	≤5
4.Ripple r.m.s. @ rated voltage. 1-		mA	≤1200	≤600	≤300	≤300	≤200	≤100	≤60	≤40	≤12	≤8
4.htppie i.m.s. @ rated voltage. 1-	111030 (14)	IIIA								240	312	
5.Temperature coefficient		PPM/°C						inutes warm-u				
								nutes warm-up				
			10.01% of rate									
6.Temperature stability				a lout over 8r	nrs. interval fo	llowing 30 mir	nutes warm-u	p. Constant IIr	ie, ioau & teri	iperature.		
								p. Constant III 0 minutes follo		•		
Narm-up drift			10V~100V mo	del: Less tha	n +/-0.25% of	rated output o	current over 3		owing power	•		
7. Warm-up drift			10V~100V mo 150V~600V: L	del: Less tha	n +/-0.25% of	rated output o	current over 3	0 minutes follo	owing power	•		
7. Warm-up drift  ANALOG PROGRAMMING AND N	MONITORING (ISOLATED	 O FROM	10V~100V mo 150V~600V: L THE OUTPUT)	odel: Less than ess than +/-0	n +/-0.25% of 0.15% of rated	rated output o	t over 30 mini	0 minutes follo utes following	owing power power on.	•		
7. Warm-up drift	MONITORING (ISOLATED		10V~100V mo 150V~600V: L THE OUTPUT)	odel: Less than ess than +/-0	n +/-0.25% of 0.15% of rated	rated output o	t over 30 mini	0 minutes follo	owing power power on.	•		
7. Warm-up drift  ANALOG PROGRAMMING AND N		 O FROM	10V~100V mc 150V~600V: L THE OUTPUT) 0~100%, 0~5	odel: Less than ess than +/-0 V or 0~10V, u	n +/-0.25% of 0.15% of rated ser selectable	rated output output output curren	t over 30 min	0 minutes follo utes following	owing power power on. Vout.	•		
7. Warm-up drift  ANALOG PROGRAMMING AND N 1. Vout voltage programming		FROM	10V~100V mo 150V~600V: L THE OUTPUT) 0~100%, 0~5 0~100%, 0~5	odel: Less than .ess than +/-0 V or 0~10V, u: V or 0~10V, u:	n +/-0.25% of 0.15% of rated ser selectable ser selectable	output curren  Accuracy and	t over 30 minut d linearity: +/-	0 minutes folloutes folloutes following	power on.  Vout. out.	on.		
7. Warm-up drift  ANALOG PROGRAMMING AND N  1. Vout voltage programming  2. lout voltage programming (*15  3. Vout resistor programming	5)	FROM	10V~100V mo 150V~600V: L THE OUTPUT) 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5	odel: Less than .ess than +/-0 V or 0~10V, u: V or 0~10V, u: /10Kohm full	n +/-0.25% of 0.15% of rated ser selectable ser selectable scale, user sel	rated output coutput coutput curren  Accuracy and Accuracy and	t over 30 minut d linearity: +/- d linearity: +/- racy and linea	0 minutes folk utes following 0.15% of rated 0.4% of rated I rity: +/-0.5% o	owing power power on.  Vout. out. frated Vout.	on.		
7. Warm-up drift  ANALOG PROGRAMMING AND N 1.Vout voltage programming 2.lout voltage programming (*15 3.Vout resistor programming (*15 4.lout resistor programming (*15	5)	 D FROM <sup>1</sup>  	10V~100V mo 150V~600V: L THE OUTPUT) 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5	odel: Less than .ess than +/-0 V or 0~10V, u: V or 0~10V, u: /10Kohm full /10Kohm full	n +/-0.25% of 0.15% of rated ser selectable ser selectable scale, user sel scale, user sel	Accuracy and Accuracy and Accuracy and ectable. Accuracy ectable. Accuracy	t over 30 minut d linearity: +/- d linearity: +/- racy and linea	0 minutes folloutes following 0.15% of rated 0.4% of rated I	owing power power on.  Vout. out. frated Vout.	on.		
7. Warm-up drift  ANALOG PROGRAMMING AND IN 1.Vout voltage programming 2.lout voltage programming (*15 3.Vout resistor programming 4.lout resistor programming (*15 5.Output voltage monitor	5)	 D FROM <sup>1</sup>  	10V~100V mo 150V~600V: L THE OUTPUT) 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10	odel: Less than Less than +/-0 V or 0~10V, u: V or 0~10V, u: /10Kohm full /10Kohm full V, user select	n +/-0.25% of 0.15% of rated ser selectable ser selectable scale, user sel scale, user sel able. Accuracy	Accuracy and ectable. Accuracy and ectable. Accuracy ectable. Accuracy extended to the ectable. Accuracy: +/-0.5%.	t over 30 minut d linearity: +/- d linearity: +/- racy and linea	0 minutes folk utes following 0.15% of rated 0.4% of rated I rity: +/-0.5% o	owing power power on.  Vout. out. frated Vout.	on.		
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# **G**ENESYS™ 3.4kW SERIES SPECIFICATIONS

		_										
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
1.Rated output voltage(*1)		V	10	20	30	40	60	80	100	150	300	600
2.Rated output current (*2)		Α	340 (*3)	170	112	85	56	42	34	22.5	11.5	5.6
3.Rated output power		W	3400	3400	3360	3400	3360	3360	3400	3375	3450	3360
INDUT CHADACTERISTICS		V	10	20	20	40		00	100	150	200	600
INPUT CHARACTERISTICS		V	10	20	30	40	60	80	100	150	300	600
					~265Vac, 47~						-	
1.Input voltage/freq. 3 phase, 3 wire + G	Ground (*4)				~460Vac, 47~							
impac voltage/meq.5 phase/5 time i e	3.04.14 ( 1)				~528Vac, 47~				ac)			
			1-Phase, 200'	/ models: 170	~265Vac, 47~6	3Hz (Covers 2	200/208/230/2	240Vac)				
3-Pha	ase, 200V models:		12.5A @ 200\	'ac								
2. Maximum Input current at 3-Pha	ase, 400V models:		6.5A @ 380Va	IC								
	ase, 480V models:		6.5A @ 380Va									
	ase, 200V models:		21A @ 200Va									
	,				0Vac, rated or	itnut nower						
3.Power Factor (Typ)					, rated output							
4 Efficiency (Typ) (*5) (*22)		%	88	89	89.5	90	90	90.5	90.5	90.5	90.5	90.5
4.Efficiency (Typ) (*5) (*22)					69.5	90	90	90.5	90.5	90.5	90.5	90.5
5.Inrush current (*6)		Α	Less than 50/	4								
CONSTANT VOLTAGE MODE		٧	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*7)				d output volta								
2.Max. Load regulation (*8)				d output volta	_							
3.Ripple and noise (p-p, 20MHz) (*9)		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		PPM/°C	50PPM/°C fro	m rated outp	ut voltage, fol	lowina 30 mir	nutes warm-u	D.				
6.Temperature stability					hrs interval fo				ne load & tem	ın.		
										ъ.		
7. Warm-up drift					utput voltage		1		1	_	-	_
8.Remote sense compensation/wire (*1)	0)	V	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 lo	oad (*11)	mS	50	50	80	80	80	100	100	100	100	200
11() I ) own-prog response time:	ad (*12)	mS	450	600	800	900	1100	1300	2100	2000	3000	3100
	\ '/											
11.Transient response time		mS	10~100%	out voitage to	recover withi s than 1mS, fo	11 U.5% OT ITS 17	ated output to	a 1000 chang	ge 10~90% of	rated output	current. Outp	ut set-point:
12 (++		-			a.i 11113, 10	mouels up to	and micialin	y 100v. 21113, I	or models abo	JVE 100V.		
12.Start up delay		Sec	Less than 6 Se	ec .			-		-	-		
CONSTANT CURRENT MODE		٧	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*7)						70	00	00	100	150	300	000
3				d output curr								
2.Max. Load regulation (*13)			0.08% of rate	d output curr	ent.							
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
11			10V~100V	100PPM/°C fr	om rated out	out current fo	llowing 30 m	inutes warm-ı	ın			
5.Temperature coefficient		PPM/°C			m rated outp							
6T 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1												
6.Temperature stability					rs. interval fol							
7. Warm-up drift			10V~100V m	odel: Less thar	1 +/-0.25% of	ated output o	current over 3	0 minutes follo	owing power	on.		
7. Warm up ant			150V~600V: I	ess than +/-0	.15% of rated	output curren	t over 30 mini	utes following	power on.			
ANALOG PROGRAMMING AND MONIT	ODING (ICOL ATE	FROM	THE OHITCHT									
ANALOG PROGRAMMING AND MONIT	OKING (ISOLATEL	FROM										
1.Vout voltage programming					er selectable.							
2.lout voltage programming (*15)			0~100%, 0~5	V or 0~10V, us	er selectable.	Accuracy and	l linearity: +/-	0.4% of rated I	lout.			
3.Vout resistor programming			0~100%, 0~5	/10Kohm full	scale, user sel	ectable. Accui	racy and linea	rity: +/-0.5% c	of rated Vout.			
4.lout resistor programming (*15)			0~100%, 0~5	/10Kohm full	scale, user sel	ectable. Accui	racy and linea	rity: +/-0.5% o	of rated lout.			
5.Output voltage monitor					able. Accuracy		,				-	
6.Output current monitor (*15)												
6.Output current monitor (*15)			0~5V OF U~10	v, user select	able. Accuracy	/: +/-0.5%.						
SIGNALS AND CONTROLS (ISOLATED F	ROM THE OUTPU	T)										
1. Power supply OK #1 signal			Dower cupple	coutout moni	tor Open cell	octor Output	On: On Outn	ut Off. Off Ma	vimum Volta	no: 20\/ Mayin	num Sink Curr	ont: 10m A
												ciic ivillA.
2. CV/CC signal					ctor. CC mode							
3. LOCAL/REMOTE Analog control											al: 2~30V or o	
4. LOCAL/REMOTE Analog signal			analog progr	amming contr	ol monitor sig	nal. Open colle	ector. Remote:	On. Local: Off.	Maximum Vo	ltage: 30V, Max	ximum Sink Cu	rrent: 10mA.
5. ENABLE/DISABLE signal					by electrical si							
6. INTERLOCK (ILC) control					by electrical si						-	
7. Programmed signals					able signals. I						V zener)	
			<u> </u>									- EV position
8. TRIGGER IN / TRIGGER OUT signals			edge triage	ow ievei inpi	ut voltage = ( ninimum. Tr,7	J.OV,IVIINIMU Ff=1116 Mayin	nım Minda	Input voitag	je = 2.5 V, Ma 2 pulsas 1 m	ıxımum nigh s	level input =	- 24 bositive
							nam, will de	iay between	∠ puises im	٥.		
9. DAISY_IN/SO control signal					5V/2~30V or d							
THE PARK OF TAKE OF HOUSE			4~5V=OK, 0\	(500ohm imp	pedance)=Fail							
10. DAISY_OUT/PS_OK #2 signal												
FUNCTIONS AND FEATURES			Deseile! !!	- 4 tal et - f	tau tu AA	/Cl	Defeat					
FUNCTIONS AND FEATURES 1. Parallel operation					units in Maste			uction manua	l.			
FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation			Possible. Two	identical uni	ts. Refer to ins	truction man	ual.					
FUNCTIONS AND FEATURES 1. Parallel operation			Possible. Two	identical uni		truction man	ual.					
FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation			Possible. Two Power suppli	identical uni es can be con	ts. Refer to ins	truction man	ual. nchronize thei	r turn-on and	turn-off.	or the front pa	anel.	
FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control			Possible. Two Power suppli Limits the ou	identical uni es can be con tput power to	ts. Refer to ins nected in Dai: a proggramn	truction man sy chain to syr ned value. Pro	ual. nchronize thei ogramming via	r turn-on and a the commun	turn-off. nication ports			
FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control			Possible. Two Power suppli Limits the ou Emulates ser	identical uni es can be con tput power to ies resistance.	ts. Refer to ins nected in Dai: a proggramn Resistance ra	truction man sy chain to syr ned value. Pro nge: 1~1000n	ual. nchronize thei ogramming via nΩ. Programn	r turn-on and a the commun	turn-off. lication ports ommunication	ports or the i	front panel.	n via the
FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control			Possible. Two Power suppli Limits the ou Emulates ser Programmab	es can be con tput power to ies resistance. le Output rise	ts. Refer to ins nected in Dai: a proggramn Resistance ra and Output f	truction man sy chain to syr ned value. Pro nge: 1~1000n all slew rate. F	ual. nchronize thei ogramming via nΩ. Programn	r turn-on and a the commun	turn-off. lication ports ommunication	ports or the i		g via the
FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control		   	Possible. Two Power suppli Limits the ou Emulates ser Programmab communicat	identical uni es can be con tput power to ies resistance. Ile Output rise ion ports or th	ts. Refer to ins nected in Dais o a proggramn Resistance ra e and Output f ne front panel.	truction man sy chain to syr ned value. Pro nge: 1~1000n all slew rate. F	ual. nchronize thei ogramming via nΩ. Programn Programming	ir turn-on and a the commun ning via the cc range: 0.0001	turn-off. nication ports ommunication ~999.99 V/mS	ports or the t ec. or A/mSec	front panel. . Programmin	
FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control			Possible. Two Power suppli Limits the ou Emulates ser Programmab communicat	identical uni es can be con tput power to ies resistance. Ile Output rise ion ports or th	ts. Refer to ins nected in Dais o a proggramn Resistance ra e and Output f ne front panel.	truction man sy chain to syr ned value. Pro nge: 1~1000n all slew rate. F	ual. nchronize thei ogramming via nΩ. Programn Programming	ir turn-on and a the commun ning via the cc range: 0.0001	turn-off. nication ports ommunication ~999.99 V/mS	ports or the t ec. or A/mSec	front panel.	
FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control	JSB, LAN.		Possible. Two Power suppli Limits the ou Emulates ser Programmat communicat Profiles of up	es can be con tput power to ies resistance. le Output rise on ports or th to 100 steps	ts. Refer to ins nected in Dais a proggramn Resistance ra a and Output f he front panel. can be stored	truction man sy chain to syr ned value. Pro nge: 1~1000n all slew rate. F in 4 memory o	ual. nchronize thei ogramming via nΩ. Programn Programming cells. Activatio	ir turn-on and a the commun ning via the co range: 0.0001 on by comman	turn-off. vication ports communication ~999.99 V/mS and via the com	ports or the fec. or A/mSec	front panel. Programmin orts or by the	front panel.
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		   	Possible. Two Power suppli Limits the ou Emulates ser Programmab communicat	identical uni es can be con tput power to ies resistance. Ile Output rise ion ports or th	ts. Refer to ins nected in Dais o a proggramn Resistance ra e and Output f ne front panel.	truction man sy chain to syr ned value. Pro nge: 1~1000n all slew rate. F	ual. nchronize thei ogramming via nΩ. Programn Programming	ir turn-on and a the commun ning via the cc range: 0.0001	turn-off. nication ports ommunication ~999.99 V/mS	ports or the t ec. or A/mSec	front panel. . Programmin	
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 (URS232/485, Optional IEEE(*19)(*20)			Possible. Two Power suppli Limits the ou Emulates ser Programmab communicat Profiles of up	es can be con tput power to es resistance. ele Output rise ion ports or the to 100 steps	ts. Refer to ins nected in Dai: a proggramn Resistance ra a and Output for he front panel. can be stored	truction man sy chain to syr ned value. Pro nge: 1~1000n all slew rate. F in 4 memory o	ual. nchronize thei ogramming via nΩ. Programn Programming cells. Activatio	ir turn-on and a the commun ning via the co range: 0.0001 on by comman	turn-off. vication ports communication ~999.99 V/mS and via the com	ports or the fec. or A/mSec	front panel. Programmin orts or by the	front panel.
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 (URS232/485, Optional IEEE(*19)(*20)  1. Vout programming accuracy (*16)		   V	Possible. Two Power suppli Limits the ou Emulates ser Programmat communicat Profiles of up  10 0.05% of rate	identical uni es can be con tput power to ies resistance. Ile Output rise ion ports or th to 100 steps o	ts. Refer to ins nected in Dais o a proggramm Resistance ra and Output f ie front panel can be stored	truction mann sy chain to syr ned value. Pro nge: 1~1000n all slew rate. F in 4 memory o	ual. nchronize thei ogramming vi nΩ. Programn Programming cells. Activatio	ir turn-on and a the commun ning via the co range: 0.0001 on by comman	turn-off. vication ports communication ~999.99 V/mS and via the com	ports or the fec. or A/mSec	front panel. Programmin orts or by the	front panel.
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 (URS232/485, Optional IEEE(*19)(*20)  1. Vout programming accuracy (*16)  2. lout programming accuracy (*15)		   V	Possible. Two Power suppli Limits the ou Emulates ser Programmat communicat Profiles of up  10 0.05% of rate 0.1% of actual	identical uni es can be con tput power to ies resistance. Ile Output rise ion ports or th to 100 steps of d output volt. Il output curre	ts. Refer to ins nected in Dais a proggram Resistance ra and Output f ie front panel can be stored  30 age	truction mann sy chain to syr ned value. Pro nge: 1~1000n all slew rate. F in 4 memory o	ual. nchronize thei ogramming vi nΩ. Programn Programming cells. Activatio	ir turn-on and a the commun ning via the co range: 0.0001 on by comman	turn-off. vication ports communication ~999.99 V/mS and via the com	ports or the fec. or A/mSec	front panel. Programmin orts or by the	front panel.
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 (URS232/485, Optional IEEE(*19)(*20)  1. Vout programming accuracy (*16)  2. Lout programming accuracy (*15)  3. Vout programming resolution		   V	Possible. Two Power suppli Limits the ou Emulates ser Programmal communicat Profiles of up  10  0.05% of rate 0.1% of actua 0.002% of rat	e identical uni es can be con tput power to ies resistance. Ile Output rise ion ports or th to 100 steps o  d output volt. Il output curre ed output vole	ts. Refer to ins nected in Dais a proggramn Resistance ra and Output f he front panel. can be stored  30  age ent+0.2% of ra	truction mann sy chain to syr ned value. Pro nge: 1~1000n all slew rate. F in 4 memory o	ual. nchronize thei ogramming vi nΩ. Programn Programming cells. Activatio	ir turn-on and a the commun ning via the co range: 0.0001 on by comman	turn-off. vication ports communication ~999.99 V/mS and via the com	ports or the fec. or A/mSec	front panel. Programmin orts or by the	front panel.
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 (URS232/485, Optional IEEE(*19)(*20) 1. Vout programming accuracy (*16) 2. lout programming resolution 4. lout programming resolution 4. lout programming resolution		   V	Possible. Two Power suppli Limits the ou Emulates ser Programmab communicat Profiles of up  10  0.05% of rate 0.1% of actua 0.002% of rat	e identical uni es can be con tput power to ies resistance. Ile Output rise ion ports or th to 100 steps  d output volt. Il output curre ed output vol ed output cure ed output cure	ts. Refer to ins nected in Dai: a proggramm Resistance ra e and Output fee front panel. can be stored  30 age ent+0.2% of ra tage rent	truction mann sy chain to syr ned value. Pro nge: 1~1000n all slew rate. F in 4 memory o	ual. nchronize thei ogramming vi nΩ. Programn Programming cells. Activatio	ir turn-on and a the commun ning via the co range: 0.0001 on by comman	turn-off. vication ports communication ~999.99 V/mS and via the com	ports or the fec. or A/mSec	front panel. Programmin orts or by the	front panel.
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 (URS232/485, Optional IEEE(*19)(*20)  1. Vout programming accuracy (*16)  2. lout programming accuracy (*15)  3. Vout programming resolution		   V	Possible. Two Power suppli Limits the ou Emulates ser Programmab communicat Profiles of up  10  0.05% of rate 0.1% of actua 0.002% of rat	e identical uni es can be con tput power to ies resistance. Ile Output rise ion ports or th to 100 steps o  d output volt. Il output curre ed output vole	ts. Refer to ins nected in Dai: a proggramm Resistance ra e and Output fee front panel. can be stored  30 age ent+0.2% of ra tage rent	truction mann sy chain to syr ned value. Pro nge: 1~1000n all slew rate. F in 4 memory o	ual. nchronize thei ogramming vi nΩ. Programn Programming cells. Activatio	ir turn-on and a the commun ning via the co range: 0.0001 on by comman	turn-off. vication ports communication ~999.99 V/mS and via the com	ports or the fec. or A/mSec	front panel. Programmin orts or by the	front panel.
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 (URS232/485, Optional IEEE(*19)(*20)  1. Vout programming accuracy (*16)  2. Lout programming resolution  4. Jout programming resolution  5. Vout readback accuracy		  V	Possible. Two Power suppli Limits the ou Emulates ser Programmal communicat Profiles of up  10  0.05% of rate 0.002% of rat 0.002% of rat 0.005% of rate	eidentical uni es can be con tput power to tes resistance. Ile Output rise to 100 steps  20 d output volt. I output curre ed output vol ed output vol ed output vol ed output vol ed output curre	ts. Refer to ins nected in Dai: a proggramm Resistance ra e and Output for the front panel. Can be stored  30 age age tage rent age	truction mann sy chain to syr ned value. Pro nge: 1~1000n all slew rate. F in 4 memory o	ual. nchronize thei ogramming vi nΩ. Programn Programming cells. Activatio	ir turn-on and a the commun ning via the co range: 0.0001 on by comman	turn-off. vication ports communication ~999.99 V/mS and via the com	ports or the fec. or A/mSec	front panel. Programmin orts or by the	front panel.
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 (URS232/485, Optional IEEE(*19)(*20)  1. Vout programming accuracy (*16)  2. lout programming resolution  4. lout programming resolution  5. Vout readback accuracy  6. lout readback accuracy	Interfaces)		Possible. Two Power suppli Limits the ou Emulates ser Programmal communicat Profiles of up  0.05% of rate 0.1% of actua 0.002% of rat 0.002% of rat 0.05% of rate 0.2% of rate 0.2% of rate	eidentical uni es can be con tput power tc eis resistance. ele Output rise ion ports or th to 100 steps  20 d output volt. I output curre ed output vol ed output vol ed output curl ed output curl d output curl output curre ed output cul	ts. Refer to ins nected in Dai: a proggramn Resistance ra and Output fee front panel. can be stored  30 age ent+0.2% of ratage rent age nt	truction mani sy chain to syr ned value. Pro nge: 1~1000n all slew rate. F in 4 memory o 40	ual. nchronize thei ngramming vi. ngn. Programn Programming cells. Activatic	ir turn-on and a the commun ning via the cc range: 0.0001 on by comman	turn-off. ilcation ports ommunication ~999.99 V/mS ind via the com	n ports or the lec. or A/mSec	front panel Programmin orts or by the	front panel.
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 (URS232/485, Optional IEEE(*19)(*20)  1. Vout programming accuracy (*16)  2. Lout programming resolution  4. Jout programming resolution  5. Vout readback accuracy	Interfaces)		Possible. Two Power suppli Limits the ou Emulates ser Programmal communicat Profiles of up  10  0.05% of rate 0.002% of rat 0.002% of rat 0.005% of rate	eidentical uni es can be con tput power to tes resistance. Ile Output rise to 100 steps  20 d output volt. I output curre ed output vol ed output vol ed output vol ed output vol ed output curre	ts. Refer to ins nected in Dai: a proggramm Resistance ra e and Output for the front panel. Can be stored  30 age age tage rent age	truction mann sy chain to syr ned value. Pro nge: 1~1000n all slew rate. F in 4 memory o	ual. nchronize thei ogramming vi nΩ. Programn Programming cells. Activatio	ir turn-on and a the commun ning via the co range: 0.0001 on by comman	turn-off. vication ports communication ~999.99 V/mS and via the com	ports or the fec. or A/mSec	front panel. Programmin orts or by the	front panel.

# **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)	V	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	V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Input voltage/freq. 3 phase, 3 wire + Ground (*4)		3-Phase,	400V mod	dels: 170~2 dels: 342~4	460Vac, 4	7~63Hz (C	overs 380	/400/415\	/ac) 140/460/48	ROVac)					
2. Maximum Input current at 100% load 3-Phase, 200V model 3-Phase, 400V model	s:	17.5A @ 2 9.2A @ 38	00Vac 30Vac	3013. 542	520 vuc, 47	03/12 (C	0 ( ( ) ( ) ( ) ( )	100/113/	110/100/10	ovuc,					
3-Phase, 480V model		9.2A @ 38					-								
3.Power Factor (Typ) 4.Efficiency (Typ) (*5) (*22)	%	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
CONSTANT VOLTAGE MODE	V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Max. Line regulation (*7)				put voltag		] 30	00	60	100	130	200	300	400	300	000
2.Max. Load regulation (*8)		+		put voltag											
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		C from rat	ed output			30 minute								
6.Temperature stability									p. Constar	nt line, loa	d & temp.				
7. Warm-up drift		Less than	0.05% of	rated out	put voltag	ge+2mV o	ver 30 min	utes follo	wing pow	er on.					
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
10.Down-prog.response time:	mS	50	50	80	80	80	80	100	100	100	100	100	150	200	200
No load (*12)	mS	300	600	800	900	950	1000	1200	1900	2000	2500	3000	4000	4000	3000
11.Transient response time	mS	10~100%	, Local se	Itage to re nse. Less t	ecover wit han 1mS,	hin 0.5% of for model	of its rated s up to an	l output fo d includin	or a load ch g 100V. 2n	nange 10 nS, for mo	-90% of ra dels abov	ted outpu e 100V.	ut current.	Outputs	et-point:
12.Start up delay	Sec	Less than	5 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	rated out	put currer	nt.										
2.Max. Load regulation (*13)		0.08% of	rated out	put currer	nt.										
3.Ripple r.m.s. @ rated voltage. B.W 5Hz~1MHz (*14)	mA	≤1200 10V~100	≤600 V 100P	≤300 PM/°C fro	≤150 m rated o	≤130 utput curr	≤100 ent, follov	≤70 ving 30 m	≤45 inutes war	≤45 m-up.	≤45	≤15	≤12	≤10	≤8
5.Temperature coefficient	PPM/°C	150V~60	0V 70PP	M/°C from	rated ou	tput curre	nt, followi	ing 30 mir	nutes warn	n-up.	10.				
6.Temperature stability 7. Warm-up drift									p. Constar 0 minutes						
				nan +/-0.1	5% of rate	d output	current ov	er 30 min	utes follow	ing powe	er on.				
ANALOG PROGRAMMING AND MONITORING (ISOLATI		T		101/		l- A			0.150/ -6						
1.Vout voltage programming		10~100%,	0~5V or 0	1~10V, use	r seiectab	ie. Accura	cy and line		0.15% of ra	itea vout.					
			0 51/0=0	101/	r coloctab	la Accura	errand lin.	aarituu 1/	0 40/ of rat	ad laut					
2.lout voltage programming (*15)		0~100%,		~10V, use							d Vout				
2.lout voltage programming (*15) 3.Vout resistor programming		0~100%, 0~100%,	0~5/10Ko	hm full sc	ale, user s	electable	. Accuracy	and linea	rity: +/-0.5	% of rate					
2. lout voltage programming (*15) 3. Vout resistor programming 4. lout resistor programming (*15)		0~100%, 0~100%, 0~100%,	0~5/10Ko	hm full sc hm full sc	ale, user s ale, user s	electable electable	Accuracy Accuracy	and linea		% of rate					
2. lout voltage programming (*15) 3. Vout resistor programming 4. lout resistor programming (*15) 5. Output voltage monitor		0~100%, 0~100%, 0~100%, 0~5V or 0	0~5/10Ka 0~5/10Ka )~10V, use	ohm full sc ohm full sc er selectab	ale, user s ale, user s ole. Accura	electable electable acy: +/-0.5	Accuracy Accuracy of rated	and linea and linea Vout.	rity: +/-0.5	% of rate					
2.lout voltage programming (*15) 3.Vout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor 6.Output current monitor (*15)		0~100%, 0~100%, 0~100%, 0~5V or 0	0~5/10Ka 0~5/10Ka )~10V, use	hm full sc hm full sc	ale, user s ale, user s ole. Accura	electable electable acy: +/-0.5	Accuracy Accuracy of rated	and linea and linea Vout.	rity: +/-0.5	% of rate					
2.lout voltage programming (*15) 3.Vout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOLATED FROM THE OUTP	   UT)	0~100%, 0~100%, 0~100%, 0~5V or 0	0~5/10Ko 0~5/10Ko 0~10V, use 0~10V, use	ohm full sc ohm full sc er selectab er selectab	ale, user s ale, user s ble. Accura ble. Accura	electable electable acy: +/-0.5 acy: +/-0.5	Accuracy Accuracy of rateo	and linea and linea I Vout. I lout.	rity: +/-0.5 rity: +/-0.5	% of rate i% of rate	d lout.	· 30\/ May	vimum Sin	k Current	:10mA
2.lout voltage programming (*15) 3.Vout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor 6.Output current monitor (*15)  SIGNALS AND CONTROLS (ISOLATED FROM THE OUTP 1. Power supply OK #1 signal		0~100%, 0~100%, 0~100%, 0~5V or 0	0~5/10Ka 0~5/10Ka 0~10V, use 0~10V, use pply outp	ohm full sc ohm full sc er selectab er selectab out monito	ale, user s ale, user s ble. Accura ble. Accura or. Open c	electable electable acy: +/-0.5 acy: +/-0.5	Accuracy Accuracy of rateo for rateo Cutput On:	and linea and linea I Vout. I lout.	rity: +/-0.5 rity: +/-0.5 ut Off: Off	% of rate % of rate	d lout. m Voltage			k Current	: 10mA.
2. lout voltage programming (*15) 3. Vout resistor programming 4. lout resistor programming (*15) 5. Output voltage monitor 6. Output current monitor (*15)  SIGNALS AND CONTROLS (ISOLATED FROM THE OUTP 1. Power supply OK #1 signal 2. CV/CC signal	UT)	0~100%, 0~100%, 0~100%, 0~5V or 0 0~5V or 0	0~5/10Ka 0~5/10Ka 0~10V, use 0~10V, use pply outp pnitor. Op	ohm full sc ohm full sc er selectab er selectab out monito en collect	rale, user sole, user sole. Accurate of the Ac	electable electable acy: +/-0.5 acy: +/-0.5 ollector. C de: On. C\	Accuracy Accuracy of rateo for rateo utput On: mode: O	and linea and linea I Vout. I lout.	rity: +/-0.5 rity: +/-0.5 ut Off: Off um Voltage	% of rate % of rate . Maximu e: 30V, Ma	d lout. m Voltage ximum Si	nk Curren	t: 10mA.		
2.lout voltage programming (*15) 3.Vout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor 6.Output current monitor (*15)  SIGNALS AND CONTROLS (ISOLATED FROM THE OUTP 1. Power supply OK #1 signal	   UT)	0~100%, 0~100%, 0~100%, 0~5V or 0 0~5V or 0 Power su CV/CC M	0~5/10Ko 0~5/10Ko 0~10V, use 0~10V, use pply outp ponitor. Op	ohm full sc ohm full sc er selectab er selectab out monito en collect alog prog	ale, user stale, user stale, user stale, user stale. Accurately ac	electable electable acy: +/-0.5 acy: +/-0.5 ollector. C de: On. C\	Accuracy Accuracy of rateo of rateo output On: mode: O	and linear and linear I Vout. I lout. On. Outp	rity: +/-0.5 rity: +/-0.5 ut Off: Off	. Maximu e: 30V, Ma	m Voltage ximum Sii	nk Curren or short. L	t: 10mA. .ocal: 2~30	V or open	1.
2.lout voltage programming (*15) 3.Vout resistor programming 4.lout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor 6.Output current monitor (*15)  SIGNALS AND CONTROLS (ISOLATED FROM THE OUTP 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control	UT)	0~100%, 0~100%, 0~100%, 0~5V or 0 0~5V or 0 Power su CV/CC M Enable/D analog pr	0~5/10Ko 0~5/10Ko 0~10V, use 0~10V, use pply outp pnitor. Op bisable and	ohm full sc ohm full sc er selectab er selectab out monito en collect alog prog ng control	ale, user stale, user stale, user stale, user stale. Accuratelle. Accuratelle. Accuratelle. Accuratelle. Compensor. Open control of the stale. The stale is a stale in the stale in the stale is a stale in the stale in the stale is a stale in the stale in t	electable electable acy: +/-0.5 acy: +/-0.5 ollector. C de: On. C\ control by ignal. Ope	Accuracy Accuracy of rateo output On: mode: O electrical	and linear and linear I Vout. I lout. On. Outp ff. Maximi signal or r. Remote:	rity: +/-0.5 rity: +/-0.5 out Off: Off um Voltage dry contact	. Maximu e: 30V, Ma tt. Remote	m Voltage ximum Sii e: 0~0.6V o	nk Curren or short. L ige: 30V, N	t: 10mA. .ocal: 2~30 1aximum S	V or open	1.
2.lout voltage programming (*15) 3.Vout resistor programming 4.lout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor 6.Output current monitor (*15)  SIGNALS AND CONTROLS (ISOLATED FROM THE OUTP 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal	UT)	0~100%, 0~100%, 0~5V or 0 0~5V or 0 CV/CC M Enable/L analog pi	0~5/10Ko 0~5/10Ko 0~5/10Ko 0~10V, use 0~10V, use pply outp onitor. Op bisable and ogrammin	ohm full sc ohm full sc er selectab er selectab out monito een collect alog progr ng control output by	ale, user state, u	electable electable acy: +/-0.5 acy: +/-0.5 collector. C de: On. C\ control by ignal. Ope	Accuracy Accuracy of rated of rated utput On: I mode: O electrical cn collecto dry conta	and linear	rity: +/-0.5 rity: +/-0.5 out Off: Off um Voltage dry contact On. Local:	. Maximu e: 30V, Ma it. Remote Off. Maxin	m Voltage ximum Sii e: 0~0.6V o num Volta open. Usei	nk Curren or short. L ge: 30V, M r selectab	t: 10mA. ocal: 2~30 1aximum S le logic.	V or open	1.
2.lout voltage programming (*15) 3.Vout resistor programming 4.lout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor 6.Output current monitor (*15)  SIGNALS AND CONTROLS (ISOLATED FROM THE OUTP 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal	UT)	0~100%, 0~100%, 0~100%, 0~5V or ( 0~5V or ( Power su CV/CC M Enable/E analog pi Enable/E Enable/E	0~5/10Ko 0~5/10Ko 0~5/10Ko 0~10V, use 0~10V, use pply outponitor. Op pisable and ogrammin pisable PS pisable PS	ohm full sc ohm full sc er selectab er selectab out monito en collect alog prog ng control output by output by	ale, user sole. Accurate of the Accurate of th	electable electable acy: +/-0.5 acy: +/-0.5 control by ignal. Ope l signal or	Accuracy Accuracy of ratec of of ratec  output On: I mode: O electrical en collecto dry conta	and linea and linea I Vout. I lout. Con. Outp ff. Maximus signal or r. Remote: ct. 0~0.6V ct. Remot	rity: +/-0.5 rity: +/-0.5 uut Off: Off um Voltage dry contac On. Local:	. Maximu e: 30V, Ma tt. Remote Off. Maxin 2~30V or or or short. L	m Voltage ximum Sii e: 0~0.6V o mum Volta ppen. User	nk Curren or short. L ge: 30V, M r selectab IV or oper	t: 10mA. ocal: 2~30 Maximum S le logic. n.	V or open	1.
2.lout voltage programming (*15) 3.Vout resistor programming 4.lout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor 6.Output current monitor (*15)  SIGNALS AND CONTROLS (ISOLATED FROM THE OUTP 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	UT)	0~100%, 0~100%, 0~100%, 0~5V or 0 0~5V or 0  Power su CV/CC M Enable/E analog pi Enable/E Two ope: Maximu	0~5/10Ko 0~5/10Ko 0~5/10Ko 0~10V, use 0~10V, use pply outp onitor. Op visable and ogrammin visable PS of drain pro m low le	ohm full sc ohm full sc er selectab er selectab out monito een collect alog progi ng control output by output by ogrammal vel input	ale, user s ale, u	electable electable acy: +/-0.5 acy: +/-0.5  collector. C de: On. C control by ignal. Ope I signal or I signal or s. Maximu = 0.8V,Mi	Accuracy Acc	and linea and linea I Vout. I lout. Con. Outp ff. Maximi signal or r. Remote: ct. 0~0.6V ct. Remot	rity: +/-0.5 rity: +/-0.5  ut Off: Off um Voltage dry contac On. Local: 'or short, 2 e: 0~0.6V ce	. Maximu e: 30V, Ma ct. Remote Off. Maxie 2~30V or or or short. L current 1 Itage = 2	m Voltage ximum Sii e: 0~0.6V o mum Volta open. User ocal: 2~3C 00mA (Sh	nk Curren or short. L ge: 30V, M r selectab oV or oper unted by mum hic	t: 10mA. ocal: 2~30 Maximum S le logic. n. 27V zener gh level ir	V or open iink Currer	nt: 10mA.
2.lout voltage programming (*15) 3.Vout resistor programming 4.lout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor 6.Output current monitor (*15)  SIGNALS AND CONTROLS (ISOLATED FROM THE OUTP 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	UT)	0~100%, 0~100%, 0~100%, 0~5V or 0 0~5V or 0 CV/CC M Enable/C analog pi Enable/C Two ope: Maximue By electr	0~5/10Ko 0~5/10Ko 0~5/10Ko 0~10V, use 0~10V, use pply outp poisable and oisable PS bisable PS on drain pre m low lee edge trig ical Voltage	when full sc chem full sc car selectable car selectable car selectable car control output by output by output by output by output by output we ger twe- ger 0~0.6V	tale, user stale, user stale, user stale, user stale, user stale, accurate the control of the co	electable electable acy: +/-0.5 acy: +/-0.5 cy: +/-0.5 cy: +/-0.5 cy: +/-0.5 cy: +/-0.5 cy: -/-0.5	Accuracy Acc	and linea and linea I Vout. I lout. Con. Outp ff. Maximi signal or r. Remote: ct. 0~0.6V ct. Remot	rity: +/-0.5 rity: +/-0.5 rity: +/-0.5 ut Off: Off um Voltage dry contac On. Local: or short, 2 e: 0~0.6V c imum sink	. Maximu e: 30V, Ma ct. Remote Off. Maxie 2~30V or or or short. L current 1 Itage = 2	m Voltage ximum Sii e: 0~0.6V o mum Volta open. User ocal: 2~3C 00mA (Sh	nk Curren or short. L ge: 30V, M r selectab oV or oper unted by mum hic	t: 10mA. ocal: 2~30 Maximum S le logic. n. 27V zener gh level ir	V or open iink Currer	nt: 10mA.
2.lout voltage programming (*15) 3.Vout resistor programming 4.lout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor 6.Output current monitor (*15)  SIGNALS AND CONTROLS (ISOLATED FROM THE OUTP 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	UT)	0~100%, 0~100%, 0~100%, 0~5V or 0 0~5V or 0 CV/CC M Enable/C analog pi Enable/C Two ope: Maximue By electr	0~5/10Ko 0~5/10Ko 0~5/10Ko 0~10V, use 0~10V, use pply outp poisable and oisable PS bisable PS on drain pre m low lee edge trig ical Voltage	when full scenarios of the full scenarios of	tale, user stale, user stale, user stale, user stale, user stale, accurate the control of the co	electable electable acy: +/-0.5 acy: +/-0.5 cy: +/-0.5 cy: +/-0.5 cy: +/-0.5 cy: +/-0.5 cy: -/-0.5	Accuracy Acc	and linea and linea I Vout. I lout. Con. Outp ff. Maximi signal or r. Remote: ct. 0~0.6V ct. Remot	rity: +/-0.5 rity: +/-0.5 rity: +/-0.5 ut Off: Off um Voltage dry contac On. Local: or short, 2 e: 0~0.6V c imum sink	. Maximu e: 30V, Ma ct. Remote Off. Maxie 2~30V or or or short. L current 1 Itage = 2	m Voltage ximum Sii e: 0~0.6V o mum Volta open. User ocal: 2~3C 00mA (Sh	nk Curren or short. L ge: 30V, M r selectab oV or oper unted by mum hic	t: 10mA. ocal: 2~30 Maximum S le logic. n. 27V zener gh level ir	V or open iink Currer	nt: 10mA.
2.lout voltage programming (*15) 3.Vout resistor programming 4.lout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor 6.Output current monitor (*15)  SIGNALS AND CONTROLS (ISOLATED FROM THE OUTP 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	UT)	0~100%, 0~100%, 0~100%, 0~5V or 0 0~5V or 0 0~5V or 0 Enable/C analog pi Enable/C Two ope: Maximu positive By electr	0~5/10Ko 0~5/10Ko 0~5/10Ko 0~10V, use 0~10V, use pply outponitor. Op pisable ana ogrammi pisable PS pisable PS m drain pre m low lee edge trigical Voltage k, OV (5000)	when full scores have full scores selectable reselectable reselectable reselectable reselectable reselectable reselectable research full selectable research full selectabl	ale, user stale, user stale, user stale, user stale, user stale. Accurate the control of the con	electable electable acy: +/-0.5 acy: +/-0.5 cy: +/-0.5 cy: +/-0.5 de: On. Cy control by ignal. Ope l signal or s. Maximu = 0.8V,Mi nimum. T dry conta ail	Accuracy Acc	and linear and linear and linear and linear and linear and linear	rity: +/-0.5 rity: +/-0.5 uut Off: Off um Voltage dry contac On. Local: 'or short, '2 e: 0~0.6V c imum sink input vo n, Min del	. Maximu e: 30V, Ma tt. Remote Off. Maxin 2~30V or o or short. L current 1 Itage = 2 ay betwee	m Voltage ximum Sii e: 0~0.6V c num Volta ppen. Usei ocal: 2~3C 00mA (Sh .5V, Maxi een 2 pul	nk Curren or short. L ige: 30V, N r selectab IV or oper unted by imum hig ses 1ms.	t: 10mA. ocal: 2~30 flaximum S le logic. n. 27V zener gh level ir	V or oper ink Currer ) nput = 5\	nt: 10mA.
2.lout voltage programming (*15) 3.Vout resistor programming 4.lout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor 6.Output current monitor (*15)  SIGNALS AND CONTROLS (ISOLATED FROM THE OUTP 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	UT)	0~100%, 0~100%, 0~100%, 0~5V or 0 0~5V or 0 0~5V or 0 Enable/C analog pi Enable/C Two ope: Maximu positive By electr 4~5V=Ol	0~5/10Ko 0~5/10Ko 0~5/10Ko 0~10V, use 0~10V, use pply outponitor. Op bisable and ogrammi bisable PS bisable PS m drain pro m low lee edge trigical Voltage K, OV (5000) Up to twee	when full scoop has full scoop has full scoop selectable and the monitor of the full scoop has f	ale, user s ale, user s ale, user s ale, user s ale. Accura be. Accura cor. Open c cor. CC mo ramming monitor s r electrica r electrica voltage =10us min r/2~30V or edance)=F entical un	electable electable electable acy: +/-0.5 acy: +/-0.5 ollector. C de: On. C control by ignal. Ope signal or I signal or s. Maximu = 0.8V,Mi nimum. T or dry conta ail	Accuracy Acc	and linear and linear and linear and linear and linear and linear	rity: +/-0.5 rity: +/-0.5 rity: +/-0.5 ut Off: Off um Voltage dry contac On. Local: or short, 2 e: 0~0.6V c imum sink	. Maximu e: 30V, Ma tt. Remote Off. Maxin 2~30V or o or short. L current 1 Itage = 2 ay betwee	m Voltage ximum Sii e: 0~0.6V c num Volta ppen. Usei ocal: 2~3C 00mA (Sh .5V, Maxi een 2 pul	nk Curren or short. L ige: 30V, N r selectab IV or oper unted by imum hig ses 1ms.	t: 10mA. ocal: 2~30 flaximum S le logic. n. 27V zener gh level ir	V or oper ink Currer ) nput = 5\	nt: 10mA.
2.lout voltage programming (*15) 3.Vout resistor programming 4.lout resistor programming 4.lout resistor programming 6.Output voltage monitor 6.Output current monitor (*15) 5.Guts voltage monitor 6.Output current monitor (*15) 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	UT)	0~100%, 0~100%, 0~100%, 0~5V or 0 0~5V or 0 0~5V or 0 Enable/C analog pl Enable/C Two opei Maximu positive By electr 4~5V=Ol	0~5/10Ko 0~5/10Ko 0~5/10Ko 0~5/10Ko 0~10V, use 0~10V, use pply outp onitor. Op bisable and orgrammin bisable PS of drain pro m low lee edge trig ical Voltag K, OV (5000) Up to twe Two iden	when full scoop has f	ale, user s ale, u	electable electable electable cy: +/-0.5 cy: +/-0.5 collector. C de: On. C control by ignal. Ope signal or s. Maximu = 0.8V, Minimum. T dry conte ail	Accuracy Acc	and linear	rity: +/-0.5 rity:	. Maximu e: 30V, Ma e: t. Remote Off. Maxim 2~30V or o or short. L current 1 Itage = 2 ay between	m Voltage ximum Sie e: 0~0.6V c mum Volta ppen. Use ocal: 2~3C 00mA (Sh .5V, Maxi een 2 pul	nk Curren or short. L ige: 30V, N r selectab IV or oper unted by imum hig ses 1ms.	t: 10mA. ocal: 2~30 flaximum S le logic. n. 27V zener gh level ir	V or oper ink Currer ) nput = 5\	nt: 10mA.
2.lout voltage programming (*15) 3.Vout resistor programming 4.lout resistor programming 4.lout resistor programming 6.Output voltage monitor 6.Output current monitor (*15)  SIGNALS AND CONTROLS (ISOLATED FROM THE OUTP 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	UT)	0~100%, 0~100%, 0~100%, 0~5V or 0 0~5V or 0 0~5V or 0 Enable/L analog pi Enable/L Enable/L Enable/L Enable/L Enable/L Enable/L Enable/L Possible. Possible. Possible.	0~5/10Ko 0~5/10Ko 0~5/10Ko 0~10V, use 0~10V, use pply outponitor. Opplisable and rogrammin risable PS risable PS risable PS risable PS m I drain pr m I low lee edge tris ical Voltag C, 0V (5000  Up to twe Two iden pplies car	when full so when full so when full so when full so or selectable of sel	ale, user s ale, u	electable electable electable acy: +/-0.5 acy: +/-0.5 control by ignal. Ope is ignal or s. Maximu = 0.8V,Mi nimum. T dry contra ail its in Mast nstruction aisy chain	Accuracy Accuracy Accuracy Sof ratec Sof ratec Accuracy Sof ratec Accuracy Accuracy Sof ratec Accuracy	and linear li	rity: +/-0.5 rity: +/-0.5 rity: +/-0.5 rity: +/-0.5  ut Off: Off um Voltage dry contac On. Local: or short, 2 e: 0~0.6V c imum sink i input vo n, Min del	. Maximu e: 30V, Ma tt. Remote coff. Maxim e> 30V or or short. L current 1 ltage = 2 ay between	m Voltage ximum Sie: 0~0.6V o mum Volta ppen. Usei ocal: 2~30 00mA (Sh .5V, Maxi een 2 pul	nk Curren or short. L gge: 30V, M r selectab IV or oper unted by imum hig ses 1ms.	t: 10mA. ocal: 2~30 Aaximum S le logic. n. 27V zener gh level ir	V or oper ink Currer ) nput = 5\	nt: 10mA.
2.lout voltage programming (*15) 3.Vout resistor programming 4.lout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor 6.Output voltage monitor (*15)  SIGNALS AND CONTROLS (ISOLATED FROM THE OUTP 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	UT)	0~100%, 0~100%, 0~100%, 0~5V or 0 0~5V or 0 0~5V or 0 Enable/C analog pi Enable/C En	0~5/10Ko 0~5/10Ko 0~5/10Ko 0~5/10Ko 0~10V, uses pply outponitor. Opplisable and ogrammin bisable PS bisable PS mid drain pro millow lee edge trigical Voltage K, OV (500 Up to twee Two iden pplies car e output p	when full so when full so when full so when full so we selectable out monitor and output by output by output by output by output by output by opparmand vel input gger: twelfer (12) id. tical units in be connected to so we when for the following the follo	ale, user s ale, u	electable electable electable cy: +/-0.5 cy: +/-0.5 cy: +/-0.5 collector. Cy control by ignal. Ope I signal or I s	Accuracy Acc	and linear li	rity: +/-0.5 rity:	. Maximu e: 30V, Ma tt. Remote Off. Maxin 2~30V or 6 or short. L current 1 ltage = 2 ay between	m Voltage ximum Sii e: 0~0.6V c num Volta ppen. User ocal: 2~3C 00mA (Sh .5V, Maxi een 2 pul	nk Curren or short. L gge: 30V, N r selectab V or oper unted by mum hic ses 1ms.	t: 10mA. ocal: 2~30 Maximum S le logic. n. 27V zener gh level ir	V or open ink Currer ) nput = 5\ possult with	nt: 10mA.
2.lout voltage programming (*15) 3.Vout resistor programming 4.lout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor 6.Output voltage monitor 6.Output current monitor (*15)  SIGNALS AND CONTROLS (ISOLATED FROM THE OUTP 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	UT)	0~100%, 0~100%, 0~100%, 0~5V or 0 0~5V or 0 0~5V or 0 10~5V or 0 1	0~5/10Ko 0~5/10Ko 0~5/10Ko 0~5/10Ko 0~10V, use 0~10V, use pply outponitor. Op 0/sable and 0/grammin 0/sable PS	when full so when full so when full so when full so ar selectable or sel	ale, user sale, user sale, user sale, user sale, user sale. Accurable. Accurable. Accurable. Accurable signals voltage = 10 us mit/2~30 V ordance)=F  entical un. Refer to increase in December 10 user sale. Refer to increase in December 10 user sale.	electable electable electable acy: +/-0.5 acy: +/-0.5 collector. C de: On. C control by ignal. Ope signal or s. Maximu = 0.8V,Mi nimum. T or dry conta ail  its in Mast nstruction aisy chain mmed valu range: 1- tt fall slew	Accuracy Ac	and linear and linear and linear and linear and linear and linear	rity: +/-0.5 rity: +/-0.5 rity: +/-0.5 rity: +/-0.5  ut Off: Off um Voltage dry contac On. Local: or short, 2 e: 0~0.6V c imum sink i input vo n, Min del	. Maximu e: 30V, Ma tt. Remote Off. Maxim 2~30V or o or short. L current 1 ltage = 2 ay betw.	m Voltage ximum Sie e: 0~0.6V c num Volta ppen. User ocal: 2~30 00mA (Sh .5V, Maxi pen 2 pul	nk Curren or short. L gge: 30V, N r selectab IV or oper unted by mum hig ses 1ms.	t: 10mA. ocal: 2~30 Maximum S le logic. n. 27V zener gh level ir er please co	V or open ink Currer  )  nput = 5\  ponsult with	ht: 10mA.
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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.													
			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), the 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			Vouts50V Models: Input – Output & J8 (sense), J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VDC 1min, Input – Ground: 2835VDC 1min.  160V≤Vout≤100V Models: Input – Output & J8 (sense), J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VDC 1min, Input - Ground: 2835VDC 1min.  10utput & J8 (sense) - J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 850VDC 1min.  100V≤Vout≤600V Models: Input – Output & J8 (sense), J1, J2, J3, J4, J5, J6, J7 and J9 (communication options): 4242VDC 1min.  100V≤Vout≤600V Models: Input – Output & J8 (sense), J1, J2, J3, J4, J5, J6, J7 and J9 (communication options): 4242VDC 1min.  100V≤Vout≤600V Models: Input – Output & J8 (sense), J1, J2, J3, J4, J5, J6, J7 and J9 (communication options): 4242VDC 1min.  100V≤Vout≤600V Models: Input – Output & J8 (sense), J1, J2, J3, J4, J5, J6, J7 and J9 (communication options): 4242VDC 1min.  100V≤Vout≤600V Models: Input – Output & J8 (sense) – II, J2, J3, J4, J5, J6, J7 & J9 (communication options): 1275VDC 1min.  100V≤Vout≤600V Models: Input – Stouth & J8 (sense) – II, J2, J3, J4, J5, J6, J7 & J9 (communication options): 1275VDC 1min.													
1.3 Insulation resistance			100Mohm at 25°C, 70%RH. Output to Ground 500VDC													
1.3 Insulation resistance 2.Conducted emmision			100Mohm at 25°C, 70%RH. Output to Ground 500VDC  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 G3.4kW: Derate SA/1"C above 40"C,
  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.
  4. Stot including EMI filter inrush current, Ices than 0.2m5ec.
  7. 3-Phase 200V models: 170-265Vac, 3-Phase 400/ 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-13ITA (C11) 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 10% to 90% or 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, with rated, resistive load.
  13. For load voltage change, equal to the unit voltage rating, constant input voltage.
  13. For load voltage change, equal to the unit voltage rating, constant input 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 programming, readback and monito

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

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	
Development Priority		Α	B	Α	В	В	Α	A	В	B	A	В	A	
1.Rated output voltage(*1)	V	20	30	40	60	80	100	150	200	300	600	1000	1500	
2.Rated output current (*2)	Α	375	250	188	125	94	75	50	37.5	25	12.5	7.5	5	
3.Rated output power	W	7500	7500	7520	7500	7520	7500	7500	7500	7500	7500	7500	7500	
INPUT CHARACTERISTICS	٧	20	30	40	60	80	100	150	200	300	600	1000	1500	
1.Input voltage/freq. 3 phase, 3 wire+ground (*4)				: 170~265Va : 342~528Va				40/460/480	Vac).					
2.Maximum Input current at 100% load 3-Phase, 200V models: 3-Phase, 480V models:		25.5A @ 200Vac. 13.5A @ 380Vac.												
3.Power Factor (Typ.)		0.94 @ 200	/380Vac, rat	ted output p	ower.									
4.Efficiency (Typ.) (*5) (*3)	%	91	**	91	**	**	91	91	**	**	92	**	92	
5.Inrush current (*6)	Α	Less than 6	5A.											
CONSTANT VOLTAGE MODE	٧	20	30	40	60	80	100	150	200	300	600	1000	1500	
1.Max. Line regulation (*7)		0.01% of ra	ted output	voltage.							•			
2.Max. Load regulation (*8)		0.01% of ra		voltage +5r										
3.Ripple and noise (p-p, 20MHz) (*9)	mV	80	**	80	**	**	90	150	**	**	450	**	1300	
4.Ripple r.m.s. 5Hz~1MHz (*9)	mV	10	**	8	**	**	15	20	**	**	100	**	500	
5.Temperature coefficient				output volta										
6.Temperature stability				er 8hrs. inte						temperatu	ire.			
7.Warm-up drift		1	T	ed output v		T .	T .		1	-	-	-	-	
8.Remote sense compensation/wire (*10)	٧	2	5 **	5	5 **	5 **	5	5	5	5 **	5	5	5	
9.Up-prog. response time (*11)	mS	30	**	30	**	**	50	50	**	**	100	**	200	
10.Down-prog. response time Full load (*11) No load (*12)	mS	50 600	**	80 1000	**	**	100 1500	100 2500	**	**	600 3000	**	400 3000	
[140 load ( 12)													3000	
11.Transient response time		Output set Less than 1	Time for output voltage to recover within 0.5% of its rated output for a load change 10~90% of rated output current. Output set point: 10~100%, Local sense. Less than 1m5 for models up to and including 100V. 2m5 for models above 100V.									-		
12.Start up delay		Less than 5												
13.Hold-up time		5mS Typica	I. Rated out	tput power.			-							
CONSTANT CURRENT MODE	٧	20	30	40	60	80	100	150	200	300	600	1000	1500	
1.Max. Line regulation (*7)		0.05% of ra	ted output	current.										
2.Max. Load regulation (*13)		0.08% of ra	ted output	current.										
3.Ripple r.m.s. 5Hz~1MHz (*14)	mA	≤900	**	≤300	**	**	≤70	≤45	**	**	≤14	**	≤5	
4.Temperature coefficient	PPM/°C			PPM/OC fro										
		+		OPPM/OC fr										
5.Temperature stability		0.01% of ra	ted lout ove	er 8hrs. inte	rval followii	ng 30 minut	tes warm-u	o. Constant	line, load &	temperatu	re.			
6.Warm-up drift		20V~100V	models: Les	s than +/-0.	25% of rate	d output cu	rrent over 3	0 minutes	following p	ower on.				
orraini ap anic		150V~1500	V models: L	ess than +/-	0.15% of ra	ted output	current ove	r 30 minute	s following	power on.				
ANALOG PROGRAMMING AND MONITORING (ISOLATED	FROM T	HE OUTPUT	Γ)											
1.Vout voltage programming		0~100%, 0	~5V or 0~10	V, user sele	ctable. Accı	uracy and lin	nearity: +/-0	).15% of rate	ed Vout.					
2.lout voltage programming (*15)				V, user sele										
3. Vout resistor programming		0~100%, 0	~5/10KΩ ful	ll scale, user	selectable.	Accuracy a	nd linearity	: +/-0.5% of	frated Vout					
4.lout resistor programming (*15)		0~100%, 0	~5/10KΩ fu	ll scale, user	selectable.	Accuracy a	nd linearity	: +/-0.5% of	frated lout.					
5.Output voltage monitor				electable. Ac										
6.Output current monitor (*15)		0~5V or 0~	10V, user se	electable. Ac	curacy: +/-	0.5% of rate	d lout.							
SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPUT	Γ)													
1.Power supply OK #1 signal		Power sup	ply output r	monitor. Op	en collecto	r. Output Or	n: On. Outpi	ut Off: Off. I	Maximum V	oltage: 30V	. Maximum :	Sink Current	t: 10mA.	
2.CV/CC signal		CV/CC Mor	itor. Open	collector. CO	mode: On.	.CV mode: 0	Off. Maximu	m Voltage:	30V. Maxim	ıum Sink Cu	rrent: 10mA	١.		
3.LOCAL/REMOTE Analog control		Enable/Dis	able analog	g programm	ing control	by electrica	al signal or o	dry contact	. Remote: 0	~0.6V or sho	ort. Local: 2~	-30V or ope	n.	
4.LOCAL/REMOTE Analog signal		-									30V. Maximi		rent: 10mA	
5.ENABLE/DISABLE signal											ctable logic			
6.INTERLOCK (ILC) control										-	2~30V or op			
7.Programmed signals										nA (shunted	d by 27V zer	ier).		
8.TRIGGER IN / TRIGGER OUT signals		Maximum	low level in high level ir oetween 2 p	put voltage nput = 5V po oulses 1ms.	= 0.8V. Min ositive edge	inum nigh trigger: tw	= 10us min	imum. Tr,Tf	= 1us maxii	mum.				
9.DAISY_IN/SO control signal		-		0.6V/2~30		ntact.								
10.DAISY_OUT/PS_OK #2 signal		4~5V = OK	, 0V (500Ω i	mpedance)	= Fail.									
FUNCTIONS AND FEATURES														
1. Parallel operation		Possible. U	p to 4 ident	ical units in	Master/Slav	ve mode. Re	fer to instru	iction man	ual.					
2. Series operation				l units. Refe										
3. Daisy chain				connected				r turn-on ar	nd turn-off.					
4. Constant power control		Limits the	output pow	er to a prog	rammed va	lue. Prograi	mming via t	he commu	nication po	rts or the fro	ont panel.			
1		Emulates s		nce. Resista			. Programm	ing via com	munication	ports or fro	ont panel.			
5. Output resistance control					utput fall cle	ow rate								
Output resistance control     Slew rate control		Programm Programm	ing range: 0	0.0001~999.	99 V/mS. or	A/mS.								
		Programm Programm Programm Profiles of	ing range: 0 ing via com up to 100 st	0.0001~999. munication eps can be	99 V/mS. or ports or fro stored in 4 r	A/mS. ont panel. nemory cell	ls.							
6. Slew rate control 7. Arbitrary waveforms		Programm Programm Programm Profiles of	ing range: 0 ing via com up to 100 st	0.0001~999. munication	99 V/mS. or ports or fro stored in 4 r	A/mS. ont panel. nemory cell	ls. nt panel.							
6. Slew rate control  7. Arbitrary waveforms  PROGRAMMING AND READBACK		Programm Programm Programm Profiles of	ing range: 0 ing via com up to 100 st	0.0001~999. munication eps can be	99 V/mS. or ports or fro stored in 4 r	A/mS. ont panel. nemory cell	ls. nt panel.	150	200	300	600	1000	1500	
6. Slew rate control 7. Arbitrary waveforms		Programm Programm Programm Profiles of Activation	ing range: 0 ing via com up to 100 st by commar	0.0001~999. munication eps can be s nd via comm	99 V/mS. or ports or fro stored in 4 r nunication p	A/mS. ont panel. memory cell ports or fron	nt panel.	150	200	300	600	1000	1500	
6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB. LAN. R5232/485, Optional (*17) (*20) Interfaces)	  V	Programm Programm Profiles of Activation 20 0.05% of ra	ing range: 0 ing via com up to 100 st by commar 30 ted output	0.0001~999. munication eps can be s nd via comm	99 V/mS. or ports or fro stored in 4 r nunication p	A/mS. ont panel. memory cell ports or fror	100	150	200	300	600	1000	1500	
6. Slew rate control  7. Arbitrary waveforms  PROGRAMMING AND READBACK (USB. LAN. RS232/485, Optional (*17) (*20) Interfaces) 1. Vout programming accuracy (*16) 2. lout programming accuracy (*15) 3. Vout programming resolution	 V	Programm Programm Profiles of Activation 20 0.05% of ra 0.1% of act 0.002% of 1	ing range: 0 ing via com up to 100 st by commar  30 ted output ual output or	0.0001~999. munication eps can be s nd via comm  40  voltage. current +0.2 it voltage.	99 V/mS. or ports or fro stored in 4 r nunication p	A/mS. ont panel. memory cell ports or fror	100	150	200	300	600	1000	1500	
6. Slew rate control  7. Arbitrary waveforms  PROGRAMMING AND READBACK (USB, LAN, R5232/485, Optional (*17) (*20) Interfaces) 1.Vout programming accuracy (*16) 2.lout programming accuracy (*15) 3.Vout programming resolution 4.lout programming resolution 4.lout programming resolution	 V	Programm Programm Profiles of Activation 20 0.05% of ra 0.1% of act 0.002% of 1	ing range: 0 ing via com up to 100 st by commar  30 ted output ual output rated outpu	2.0001~999. munication eps can be end via comm  40 voltage. current +0.2 it voltage. it current.	99 V/mS. or ports or fro stored in 4 r nunication p	A/mS. ont panel. memory cell ports or fror	100	150	200	300	600	1000	1500	
6. Slew rate control  7. Arbitrary waveforms  PROGRAMMING AND READBACK (USB, LAN, R5232/485, Optional (*17) (*20) Interfaces) 1. Vout programming accuracy (*16) 2. lout programming resolution 4. lout programming resolution 5. Vout readback accuracy	V	Programm Programm Profiles of Activation 20 0.05% of ra 0.1% of act 0.002% of 1 0.002% of ra	ing range: 0 ing via com up to 100 st by commar  30 ted output ual output rated outpu rated output ted output	0.0001~999. munication eps can be send via comm 40 voltage. current +0.2 it voltage. it current. voltage.	99 V/mS. or ports or fro stored in 4 r nunication p	A/mS. ont panel. memory cell ports or fror	100	150	200	300	600	1000	1500	
6. Slew rate control  7. Arbitrary waveforms  PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional (*17) (*20) Interfaces) 1. Vout programming accuracy (*16) 2. lout programming resolution 4. lout programming resolution 5. Vout readback accuracy 6. lout readback accuracy 6.	V	Programm Programm Profiles of Activation 20 0.05% of ra 0.1% of act 0.002% of ra 0.05% of ra 0.05% of ra	ing range: 0 ing via com up to 100 st by commar 30 ted output ual output eated output ted output ted output ted output ed output ed output ced	0.0001~999. munication eps can be end via comm 40 voltage. current +0.2 it voltage. it current. voltage. urrent.	99 V/mS. or ports or fro stored in 4 r nunication p	A/mS. ont panel. memory cell corts or fror  80  output curre	100 ent.							
6. Slew rate control 7. Arbitrary waveforms  PROGRAMMING AND READBACK (USB, LAN, R5232/485, Optional (*17) (*20) Interfaces) 1. Yout programming accuracy (*16) 2. lout programming resolution 4. lout programming resolution 5. Yout readback accuracy	V	Programm Programm Profiles of Activation 20 0.05% of ra 0.1% of act 0.002% of 1 0.002% of ra	ing range: 0 ing via com up to 100 st by commar  30 ted output ual output rated outpu rated output ted output	0.0001~999. munication eps can be send via comm 40 voltage. current +0.2 it voltage. it current. voltage.	99 V/mS. or ports or fro stored in 4 r nunication p	A/mS. ont panel. memory cell ports or fror	100	0.007% 0.003%	200 0.005% 0.003%	0.004% 0.005%	0.002% 0.009%	0.011% 0.002%	0.007% 0.003%	

# **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	t-down whe	n power supp	oly changes i	mode from (		imit to CC m	ode or from	CC or Power	Limit to CV r	node. User pr				
2.Over-voltage protection (OVP)								. ,					ommunication	on.			
3.Over-voltage programming ran	ge	V	1~24	2~36	2~44.1	5~66.15	5~88.2						5~1212.75				
4.Over-voltage programming acc				ed output vo													
5.Output under voltage limit (UVI	_)							analog progr	amming. Pre	eset by front	panel or co	mmunication	port.				
6.Over temperature protection						ry by autost				li d							
7. Output under voltage protectio	n (UVP)							f during und n, by OUTPU			r by commu	nication.					
FRONT PANEL																	
1.Control functions			Multiple op														
					nanual adjus	t											
				VP manual a													
			Protection F														
			Communica Output ON														
		Output ON/OFF. Front Panel Lock Communication Functions - Selection of Baud Rate, Address, IP and communication language.															
			Communication Functions - Selection of Baud Rate, Address, IP and communication language.  Analog Control Functions - Selection Voltage/resistive programming, SV/10V, 5K/10K programming														
			Analog Control Functions - Selection Voltage/Tesistive programming, 5V/10V, 5A/10V 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.														
				ut: 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, Re RS/USB/LAN/IEEE communication, Trigger, Load/Store Cell.										note (commu	nication),			
ENVIRONMENTAL CONDITIONS																	
1.Operating temperature			0~50°C, 100	)% load.													
2.Storage temperature																	
3.Operating humidity			-30~85°C	(no conden	ation)												
4.Storage humidity		%		(no conden													
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 co	oolina by in	ernal fans. A	irflow direct	tion: From fr	ont panel to	power suppl	v rear.							
2.Weight		kg	Forced air cooling by internal fans. Airflow direction: From front panel to power supply rear.  Less than 8.5Kg.														
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			-			l, test condit		-		J							
5.Shock			<del> </del>		11mS. Unit is	-											
						1											
SAFETY/EMC	Cafatu	T	UL61010-1, 0	CCA 22 2 N -	1010 1 IFC	1010 1 ENG	1010 1										
1.Applicable standards:	Safety							10 /		N N							
1.1. Interface classification								J9 (commun				-\ N 11-					
			Vout≤50V N	1odels: Inpu	- Output &			11, J2, J3, J4, J 5, J6, J7 & J9 (					izardous.				
			60V≤Vout≤1 Output & J8		: Input – Out J2, J3, J4, J5,			3, J4, J5, J6, J7 on options):					VDC 1min,				
1.2 Withstand voltage												1242VDC 1mi Ground: 250	n, 0VDC 1min.				
			Output & J8 Input - Grou	(sense) - J1, ınd: 2835VD	J2, J3, J4, J5, C 1min.	J6, J7 & J9 (c	ommunicat	2, J3, J4, J5, Jo on options):									
1.3.Isolation resistance			100Mohm a	t 25°C, 70%l	RH. Output to	o Ground 50	00VDC										
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	rt 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: 170~265Vac, 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-9131C (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 arrated resistive load.

  \*14: 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. EW SH2~1MHz.

  \*15: The Constant Current B.W SH2~1MHz.

  \*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)		V	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 power		kW	10	10	10.2	10	10	10.2	10.4	10	10.2	10	10.2	10.4	10	10.2	
INPUT CHARACTERISTICS		٧	10	20	30	40	50	60	80	100	150	200	300	400	500	600	
IN OT CHARACTERISTICS		V								100	150	200	300	1 400	300	000	
1.Input voltage/freq. 3 phase, 3 wi	ire + Ground (*4)		3-Phase, 200V models: 170~265Vac, 47~63Hz (Covers 200/230Vac) 3-Phase. 400V models: 342~460Vac. 47~63Hz (Covers 380/400/415Vac)														
			,					overs 380/4		,	30Vac)						
	3-Phase, 200V models:		35A @ 20														
2. Maximum Input current at 100% load	3-Phase, 400V models:		18.4A @ 3	80Vac													
100% 10ad	3-Phase, 480V models:		18.4A @ 380Vac														
3.Power Factor (Typ)			0.94 @ 200/380Vac, rated output power.														
4.Efficiency (Typ) (*5) (*22)		%	89 (*21)	89 (*21) 90 91 91 91 91 91 91 91 91 92 92 91 92												92	
5.Inrush current (*6)			Less than	100A													
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)				rated outp			] 30	00	60	100	150	200	300	400	300	600	
2.Max. Load regulation (*8)			i	rated outp													
3.Ripple and noise (p-p, 20MHz) (	*a)	mV	75	75	75	75	75	75	80	90	120	200	200	400	450	480	
4.Ripple and noise (p-p, 20MHz) (*9)	9)	mV	8	10	12	12	12	12	15	15	20	45	60	80	80	100	
5.Temperature coefficient		PPM/°C						30 minute:			20	43	00	00	00	100	
		PPIVI/ C									nt line, load	d 0 +omn					
6.Temperature stability								er 30 mini				a & temp.					
7. Warm-up drift	iro (*10)	V	2	2			5	5	5		5	5	5	5	5	5	
8.Remote sense compensation/wi 9.Up-prog. Response time (*11)	110)	mS	30	30	5 30	5 30	50	50	50	5 50	50	50	50	100	100	100	
2.0p*prog. nesponse time (*11)	Full load (*11)	mS 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	
	INO IDAU (*12)										1 2000 nange 10~						
11.Transient response time		mS	10~100%	. Local ser	nse. Less tl	han 1mS, f	or models	up to and	l including	1 a 10au ci 3 100V. 2n	nS, for mo	dels above	ed output : 100V.	current. (	output sei	-point:	
12.Start up delay		Sec	Less than			/.		,			,						
CONSTANT CURRENT MODE						,			,						,		
1.Max. Line regulation (*7)				rated out													
2.Max. Load regulation (*13)				rated out		-											
3.Ripple r.m.s. @ 10% rated voltag		mA	1500	1200	600	300	200	150	100	70	45	45	15	15	12	10	
4.Ripple r.m.s. @ 100% rated voltage.	B.W 5Hz~1MHz. (TA25°C)	mA	1200	700	300	150	100	75	50	35	23	23	7.5	7.5	8	6	
5.Temperature coefficient		PPM/°C	10V~100					ent, follow									
								nt, followii									
6.Temperature stability			0.01% of rated lout over 8hrs. interval following 30 minutes warm-up. Constant line, load & temperature.														
7. Warm-up drift			10V~100V model: Less than +/-0.25% of rated output current over 30 minutes following power on.  150V~600V: Less than +/-0.15% of rated output current over 30 minutes following power on.														
			150V~60	0V: Less th	an +/-0.15	% of rated	d output c	urrent ove	er 30 minu	ites follow	ing powe	ron.					
ANALOG PROGRAMMING AND M	IONITORING (ISOLATED	FROM T	HE OUTP	JT)													
1.Vout voltage programming			0~100%,	0~5V or 0	~10V, user	selectabl	e. Accurac	y and line	arity: +/-0	).15% of ra	ted Vout.						
2.lout voltage programming (*15)	)		0~100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: +/-0.15% of rated Vout. 0~100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: +/-0.4% of rated lout.														
3.Vout resistor programming			0~100%, 0~5/10Kohm full scale, user selectable. Accuracy and linearity: +/-0.5% of rated Vout.														
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: +/-0.5	%. Of rated	lout.								
CICNAL CAND CONTROL CILCOLA	TED EDOM THE OUTDUIT	-\															
1. Power supply OK #1 signal	TED FROM THE OUTPUT		Danier	nnlı outn	ut monito	r Onen se	llostor O	utnut On	On Outpu	+ Off. Off	. Maximun	. Valtaga	201/ Mayi	marina Cinle	Curront, 1	O no. A	
,				,											Current: 1	UIIIA.	
CV/CC signal     LOCAL/REMOTE Analog control											e: 30V, Max t. Remote				oronon		
4. LOCAL/REMOTE Analog control										,	: Off. Maxi					t+ 10m ^	
5. ENABLE/DISABLE signal											2~30V or o				iiik currer	it. IUIIIA.	
6. INTERLOCK (ILC) control														. rogic.			
7. Programmed signals			Enable/Disable PS output by electrical signal or dry contact. Remote: 0~0.6V or short. Local: 2~30V or open.														
			The open drain programmatic signals maximum voltage 25 t/ maximum sink current rooms (shance 3) 2.7 t zener/														
8. TRIGGER IN / TRIGGER OUT sign					Maximum low level input voltage = 0.8V, Minimum high level input voltage = 2.5V, Maximum high level input = 5V positive edge trigger: tw=10us minimum. Tr,Tf=1us Maximum, Min delay between 2 pulses 1ms.												
	als		Maximu	m low lev	/el input =10us mir	voltage =	= 0.8V,Mi	nimum h	igh level	input vo	current 10	00mA (Shu 5V, Maxir	inted by 2		out = 5V	oositive	
9. DAISY_IN/SO control signal			Maximu edge tri	m low lev gger: tw=	=10us mir	voltage =	= 0.8V,Mi r,Tf=1us /	nimum h Maximum	igh level	input vo	current 10	00mA (Shu 5V, Maxir	inted by 2		out = 5V	oositive	
9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal	als		Maximu edge tri By electr	m low lev gger: tw= cal Voltag	=10us mir e: 0~0.6V	voltage = nimum. T	= 0.8V,Mi r,Tf=1us I dry conta	nimum h Maximum	igh level	input vo	current 10	00mA (Shu 5V, Maxir	inted by 2		out = 5V	oositive	
10. DAISY_OUT/PS_OK #2 signal	als		Maximu edge tri By electr	m low lev gger: tw= cal Voltag	=10us mir e: 0~0.6V	voltage = nimum. T /2~30V or	= 0.8V,Mi r,Tf=1us I dry conta	nimum h Maximum	igh level	input vo	current 10	00mA (Shu 5V, Maxir	inted by 2		out = 5V	oositive	
10. DAISY_OUT/PS_OK #2 signal  FUNCTIONS AND FEATURES	als		Maximu edge tri By electri 4~5V=Oh	m low lev gger: tw= cal Voltag (, 0V (500d	=10us mir le: 0~0.6V ohm impe	voltage = nimum. T /2~30V or dance)=Fa	= 0.8V,Mi r,Tf=1us <i>I</i> dry conta ail	nimum h Maximum ct.	igh level , Min del	input vo ay betwo	current 10 Itage = 2. een 2 pul	00mA (Shu 5V, Maxir	inted by 2		out = 5V	positive	
10. DAISY_OUT/PS_OK #2 signal  FUNCTIONS AND FEATURES 1. Parallel operation	als		Maximu edge tri By electri 4~5V=Ol	m low lev gger: tw= cal Voltag C, 0V (500c	=10us mir le: 0~0.6V, ohm impe r (4) identi	voltage = nimum. T /2~30V or dance)=Fa	= 0.8V,Mi r,Tf=1us <i>I</i> dry conta ail	nimum h Maximum	igh level , Min del	input vo ay betwo	current 10 Itage = 2. een 2 pul	00mA (Shu 5V, Maxir	inted by 2		out = 5V	positive	
10. DAISY_OUT/PS_OK #2 signal  FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation	als	  	Maximu edge tri By electri 4~5V=Oh Possible. Consult v	m low lev gger: tw= cal Voltag K, 0V (500d Up to four vith Facto	=10us mir je: 0~0.6V, ohm impe r (4) identi	voltage = nimum. T /2~30V or dance)=Fa cal GSP ur	= 0.8V,Mi r,Tf=1us I dry conta ail nits. For m	nimum hi Maximum ct.	igh level , Min del	input vo lay betwo	current 10 ltage = 2. een 2 puls	00mA (Shu 5V, Maxir ses 1ms.	inted by 2		out = 5V	positive	
10. DAISY_OUT/PS_OK #2 signal  FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain	als	  	Maximu edge tri By electri 4~5V=OH Possible. Consult v Power su	m low lever the generated to the generat	=10us mir le: 0~0.6V ohm impe r (4) identi ry l be conne	voltage = nimum. T /2~30V or dance)=Fa cal GSP ur	= 0.8V,Mi r,Tf=1us I dry conta ail nits. For m	nimum hi Maximum ct. ore power	igh level , Min del	input vo lay between	turrent 10 ltage = 2. een 2 puls h Factory.	00mA (Shu 5V, Maxir ses 1ms.	inted by 2 mum high	n level inp	out = 5V	positive	
10. DAISY_OUT/PS_OK #2 signal  FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control	als		Maximu edge tride By electric 4~5V=OH Possible. Consult v Power su Limits the	m low lever gger: tweet cal Voltage (, 0V (500 cal Voltage () ) () () () () () () () () () () () (	=10us mir le: 0~0.6V, ohm impe r (4) identi ry l be conne	voltage = nimum. T /2~30V or dance)=Fa cal GSP ur ected in Da proggram	= 0.8V,Mi r,Tf=1us I dry conta ail nits. For m aisy chain nmed valu	ore power	igh level n, Min del r please co onize their	input vo lay between onsult with	tage = 2. ltage = 2. een 2 puls h Factory. and turn-o	5V, Maxir 5V, Maxir ses 1ms.	inted by 2 mum high	n level inp		positive	
10. DAISY_OUT/PS_OK #2 signal  FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain	als	  	Maximu edge tri. By electri 4~5V=OH Possible. Consult v Power su Limits the	m low lev ggger: twe- cal Voltag C, OV (5000 Up to four with Factor pplies can e output p series res	=10us mir le: 0~0.6V, ohm impe r (4) identi ry l be conne lower to a istance. Re	voltage = nimum. T /2~30V or dance)=Fa cal GSP ur ected in Da proggram esistance i	= 0.8V,Mi r,Tf=1us / dry conta ail nits. For m aisy chain nmed valu range: 1~	ore power to synchro le. Prograr 1000mΩ. F	gh level n, Min del please co pnize their nming via Programm	onsult with trunnon a the comming via th	h Factory.  and turn-omunication e communication	50mA (Shu 5V, Maxir ses 1ms. ff. n ports or t	inted by 2 mum high	n level inpose	el.		
10. DAISY_OUT/PS_OK #2 signal  FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control	als		Maximu edge tri By electri 4~5V=OH Possible. Consult v Power su Limits the	m low lev gger: tw= cal Voltag (, 0V (500c Up to four with Factor pplies can e output p series res	=10us mir je: 0~0.6V, phm impe r (4) identi ry i be conne power to a istance. Re	voltage = nimum. T /2~30V or dance)=Fa cal GSP ur ected in Da proggram esistance i	= 0.8V,Mi r,Tf=1us I dry conta ail nits. For m aisy chain nmed valu range: 1~ t fall slew	ore power to synchro le. Prograr 1000mΩ. F	gh level n, Min del please co pnize their nming via Programm	onsult with trunnon a the comming via th	tage = 2. ltage = 2. een 2 puls h Factory. and turn-o	50mA (Shu 5V, Maxir ses 1ms. ff. n ports or t	inted by 2 mum high	n level inpose	el.		
TO. 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		Maximu edge tri- By electri 4~5V=Ol  Possible. Consult v Power su Limits the Emulates Program.	m low lever the control of the contr	=10us mir e: 0~0.6V/ chm impe r (4) identi ry be connected to a istance. Reserved	voltage = nimum. T /2~30V or dance)=Fa cal GSP ur ected in Da proggram esistance i nd Output front pane	= 0.8V,Mi r,Tf=1us N dry conta ail mits. For m aisy chain nmed valu range: 1~ t fall slew el.	nimum h Maximum ct. ore power to synchro ie. Prograr 1000mΩ. F rate. Progr	igh level , Min del please co ponize their nming via Programm	onsult with trurn-on a the comming via the range: 0.0	current 10 ltage = 2. een 2 pul: h Factory. and turn-o nunication e commur 001~999.9	00mA (Shu 5V, Maxir ses 1ms. ff. n ports or t nication po 9 V/mSec.	inted by 2 num high the front ports or the or A/mSe	panel. front pan	el.	the	
TO. 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			Maximu edge tri- By electri 4~5V=Ol  Possible. Consult v Power su Limits the Emulates Program.	m low lever the control of the contr	=10us mir e: 0~0.6V/ chm impe r (4) identi ry be connected to a istance. Reserved	voltage = nimum. T /2~30V or dance)=Fa cal GSP ur ected in Da proggram esistance i nd Output front pane	= 0.8V,Mi r,Tf=1us N dry conta ail mits. For m aisy chain nmed valu range: 1~ t fall slew el.	nimum h Maximum ct. ore power to synchro ie. Prograr 1000mΩ. F rate. Progr	igh level , Min del please co ponize their nming via Programm	onsult with r turn-on a the comr ing via th	h Factory.  and turn-omunication e communication	00mA (Shu 5V, Maxir ses 1ms. ff. n ports or t nication po 9 V/mSec.	inted by 2 num high the front ports or the or A/mSe	panel. front pan	el.	the	
TO. 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,		Maximu edge tri By electri 4~5V=Ol Possible. Consult v Power su Limits the Emulates Program commun Profiles c	m low lenger: tw= cal Voltag C, OV (500c  Up to four with Factor pplies can e output p series res mable Our ication po f up to 100	=10us mir e: 0~0.6V/ chm impe r (4) identi ry be connected to a istance. Reserved	voltage = nimum. T /2~30V or dance)=Fa cal GSP ur ected in Da proggram esistance i nd Output front pane	= 0.8V,Mi r,Tf=1us N dry conta ail nits. For m aisy chain nmed valu range: 1~ t fall slew el. d in 4 mer	nimum h Maximum ct. ore power to synchro ie. Prograr 1000mΩ. F rate. Progr	igh level , Min del please co ponize their nming via Programm	onsult with turn-on at the comming via the range: 0.0 n by commi	current 10 ltage = 2. een 2 pul: h Factory. and turn-o nunicatior e commur 001~999.9	OmA (Shu 5V, Maxir ses 1ms. ff. n ports or t nication po 9 V/mSec. he commu	inted by 2 num high the front ports or the or A/mSe	panel. front pan	el. nming via	the panel.	
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)(*	((USB, LAN,		Maximu edge tril By electri By electri 4~5V=Ol- Possible. Consult v Power su Limits the Emulates Program commun Profiles o	m low leegger: tw=cal Voltage, (, oV (500c)  Up to foun with Factor pplies can e output p series res mable Out ication pof up to 100	=10us mir ie: 0~0.6V, ohm impe r (4) identi ry ibe conner istance. Re tout rise a orts or the 0 steps ca	voltage = nimum. T /2~30V or dance)=Fa cal GSP ur ected in Dance = r proggram esistance in doutput front panen be store	= 0.8V,Mi r,Tf=1us N dry conta ail mits. For m aisy chain nmed valu range: 1~ t fall slew el.	ore power to synchro e. Program 1000mΩ. F rate. Program mory cells.	igh level n, Min del r please co onize their nming via Programm 'amming r Activatio	onsult with r turn-on a the comr ing via th	current 10 ltage = 2. een 2 pul: h Factory. and turn-o nunication e commur 001~999.9	00mA (Shu 5V, Maxir ses 1ms. ff. n ports or t nication po 9 V/mSec.	the front ports or the or A/mSe	panel. front pan c. Progran	el.	the	
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) 1. Vout programming accuracy (*1)	( (USB, LAN, '20) Interfaces)		Maximu edge tri By electri 4~5V=0li Possible. Consult v Power su Limits the Emulates Program commun Profiles c	m low lev gger: tw= cal Voltag (, oV (500c  Up to foun with Facto pplies care e output p series res mable Out ication po f up to 100  20  rated outprated ou	=10us mir ie: 0~0.6V, ohm impe r (4) identi ry ibe conne istance. Re tout rise a irts or the 0 steps car 30 out voltag	voltage = nimum. T /2~30V or dance)=Fact	= 0.8V,Mi r,Tf=1us N dry conta ail nits. For m aisy chain nmed valu range: 1~ t fall slew el. d in 4 mer	ore power to synchro e. Program 1000mΩ. F rate. Program mory cells.	igh level n, Min del r please co onize their nming via Programm 'amming r Activatio	onsult with turn-on at the comming via the range: 0.0 n by commi	current 10 ltage = 2. een 2 pul: h Factory. and turn-o nunicatior e commur 001~999.9	OmA (Shu 5V, Maxir ses 1ms. ff. n ports or t nication po 9 V/mSec. he commu	the front ports or the or A/mSe	panel. front pan c. Progran	el. nming via	the panel.	
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 7. Arbitrary waveforms  PROGRAMMING AND READBACK RS232/485, Optional IEEE (*19)(*1) 1. Vout programming accuracy (*1) 2. lout programming accuracy (*1)	( (USB, LAN, '20) Interfaces)		Maximu edge tri By electri 4~5V=Ol Possible. Consult v Power su Limits the Emulates Program commun Profiles of 0.05% of 0.3% of ro.	m low lev gger: tw= cal Voltag (, oV (500c  Up to four with Facto pplies can e output p series res mable Out ication po f up to 100  20  rated outpated	=10us mir ie: 0~0.6V, ohm impe r (4) identir ry ibe connectower to a istance. Ric typut rise a orts or the 0 steps car 30 out voltag ut current	voltage = nimum. Ti/2~30V or dance)=Facal GSP ur exceed in Daproggram esistance in double of the street of the str	= 0.8V,Mi r,Tf=1us N dry conta ail nits. For m aisy chain nmed valu range: 1~ t fall slew el. d in 4 mer	ore power to synchro e. Program 1000mΩ. F rate. Program mory cells.	igh level n, Min del r please co onize their nming via Programm 'amming r Activatio	onsult with turn-on at the comming via the range: 0.0 n by commi	current 10 ltage = 2. een 2 pul: h Factory. and turn-o nunicatior e commur 001~999.9	OmA (Shu 5V, Maxir ses 1ms. ff. n ports or t nication po 9 V/mSec. he commu	the front ports or the or A/mSe	panel. front pan c. Progran	el. nming via	the panel.	
TO. 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 (*1) 2. Iout programming accuracy (*1) 3. Vout programming resolution	( (USB, LAN, '20) Interfaces)		Maximu edge tri By electri 4~5V=Ol Possible. Consult v Power su Limits th Emulates Program commun Profiles of 0.05% of 0.3% of r 0.002% of 0.002%	m low lever geer: tweet and low lever geer: tweet and voltage (, oV (500 cm). Up to found with Factor pplies can be output perseries resumable Outcation por fup to 100 cm arted output perseries designed and perseries resumable output per	=10us mir ie: 0~0.6V, shm impe r (4) identify ry be conner ower to a istance. Re tout rise a rts or the 0 steps cal 30 out voltag ut current tput voltag	voltage = nimum. T /2~30V or dance)=Fa cal GSP ur exceed in Dance proggram esistance in do Output front panen in be store 40 e	= 0.8V,Mi r,Tf=1us N dry conta ail nits. For m aisy chain nmed valu range: 1~ t fall slew el. d in 4 mer	ore power to synchro e. Program 1000mΩ. F rate. Program mory cells.	igh level n, Min del r please co onize their nming via Programm 'amming r Activatio	onsult with turn-on at the comming via the range: 0.0 n by commi	current 10 ltage = 2. een 2 pul: h Factory. and turn-o nunicatior e commur 001~999.9	OmA (Shu 5V, Maxir ses 1ms. ff. n ports or t nication po 9 V/mSec. he commu	the front ports or the or A/mSe	panel. front pan c. Progran	el. nming via	the panel.	
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 (*12. lout programming accuracy (*12. lout programming resolution 4. lout programming resolution 4. lout programming resolution	( (USB, LAN, '20) Interfaces)		Maximu edge tri By electri A~5V=Ol Possible. Consult v Power su Limits the Emulates Program. Profiles of 10 0.05% of r. 0.002% o 0.002% o 0.002% o 0.002% o	m low lever the	=10us mir ie: 0~0.6V, shm impe r (4) identir ry be conner sower to a istance. Rat tput rise a rts or the 0 steps cal 30 but voltag ut current tput voltag tput voltag	voltage = nimum. Ti/2~30V or dance) = Facted in Daproggram esistance in double front panen be store  40  gentlement   40  gentlement   40  gentlement   40  gentlement   40  gentlement   40  gentlement   40	= 0.8V,Mi r,Tf=1us N dry conta ail nits. For m aisy chain nmed valu range: 1~ t fall slew el. d in 4 mer	ore power to synchro e. Program 1000mΩ. F rate. Program mory cells.	igh level n, Min del r please co onize their nming via Programm 'amming r Activatio	onsult with turn-on at the comming via the range: 0.0 n by commi	current 10 ltage = 2. een 2 pul: h Factory. and turn-o nunicatior e commur 001~999.9	OmA (Shu 5V, Maxir ses 1ms. ff. n ports or t nication po 9 V/mSec. he commu	the front ports or the or A/mSe	panel. front pan c. Progran	el. nming via	the panel.	
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 R\$232/485, Optional IEEE (*19)(*) 1. Vout programming accuracy (*1) 2. lout programming accuracy (*1) 3. Vout programming resolution 4. lout programming resolution 5. Vout readback accuracy	( (USB, LAN, '20) Interfaces)		Maximu edge tri By electri A~5V=Ol Possible. Consult v Power su Limits the Emulates Program commun Profiles c 10 0.05% of 0.002% o 0.002% o 0.002% o 0.05% of 0.05% o	m low lever the	=10us mir ie: 0~0.6V, shm impe r (4) identify ry s be connected istance. Reput rise a rits or the 0 steps call 30 out voltag ut current tput voltag tput current tput voltag	voltage = nimum. Ti/2~30V or dance) = Facted in Daproggram esistance in double front panen be store  40  gentlement   40  gentlement   40  gentlement   40  gentlement   40  gentlement   40  gentlement   40	= 0.8V,Mi r,Tf=1us N dry conta ail nits. For m aisy chain nmed valu range: 1~ t fall slew el. d in 4 mer	ore power to synchro e. Program 1000mΩ. F rate. Program mory cells.	igh level n, Min del r please co onize their nming via Programm 'amming r Activatio	onsult with turn-on at the comming via the range: 0.0 n by commi	current 10 ltage = 2. een 2 pul: h Factory. and turn-o nunicatior e commur 001~999.9	OmA (Shu 5V, Maxir ses 1ms. ff. n ports or t nication po 9 V/mSec. he commu	the front ports or the or A/mSe	panel. front pan c. Progran	el. nming via	the panel.	
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 (*1) 2. lout programming accuracy (*1) 3. Vout programming resolution 4. lout programming resolution 5. Vout readback accuracy 6. lout readback accuracy 6. lout readback accuracy (*15)	( (USB, LAN, '20) Interfaces) 6) 5)		Maximu edge tri- By electri 4~5V=Ol  Possible. Consult v Power su Limits the Emulates Program commun Profiles c  10  0.05% of 0.3% of r 0.002% o 0.002% o 0.002% o 0.2% of r 0.2% of r	m low lever the second of the	=10us mir ie: 0~0.6V, shm impe r (4) identir r (y) ib be conne sower to a istance. Re trutr rise a rrts or the 0 steps cal 30 out voltag ut current tput current tput voltag tput current	voltage = nimum. T /2~30V or dance) = Fa cal GSP ur cal	= 0.8V,Mi r,Tf=1us M dry conta ail mits. For m aisy chain mmed valu range: 1~ t fall slew el. d in 4 mer	ore power to synchroise. Prograr 1000mΩ. Frate. Program nory cells.	igh level , Min del please co ponize their mining via Programm amming r Activatio	onsult with return-on a the committee committee on the range: 0.0 n by committee on the committee on the range: 0.0 n by committee o	h Factory.  h Factory.  and turn-onunication c communication 001~999.9  mand via t	omA (Shu 5V, Maxir ses 1ms. off. n ports or t nication pc 9 V/mSec. he commu	the front ports or the or A/mSeunication p	panel. front pan c. Program ports or by	el. nming via v the front 500	the panel.	
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 R\$232/485, Optional IEEE (*19)(*) 1. Vout programming accuracy (*1) 2. lout programming accuracy (*1) 3. Vout programming resolution 4. lout programming resolution 5. Vout readback accuracy	( (USB, LAN, *20) Interfaces) 6) 5) ed output voltage)		Maximu edge tri By electri A~5V=Ol Possible. Consult v Power su Limits the Emulates Program commun Profiles c 10 0.05% of 0.002% o 0.002% o 0.005% of 0.005%	m low lever the	=10us mir ie: 0~0.6V, shm impe r (4) identify ry s be connected istance. Reput rise a rits or the 0 steps call 30 out voltag ut current tput voltag tput current tput voltag	voltage = nimum. Ti/2~30V or dance) = Facted in Daproggram esistance in double front panen be store  40  gentlement   40  gentlement   40  gentlement   40  gentlement   40  gentlement   40  gentlement   40	= 0.8V,Mi r,Tf=1us M dry conta ail mits. For m aisy chain mmed valu range: 1~ t fall slew el. d in 4 mer	ore power to synchro e. Program 1000mΩ. F rate. Program mory cells.	igh level n, Min del r please co onize their nming via Programm 'amming r Activatio	onsult with turn-on at the comming via the range: 0.0 n by commi	current 10 ltage = 2. een 2 pul: h Factory. and turn-o nunicatior e commur 001~999.9	OmA (Shu 5V, Maxir ses 1ms. ff. n ports or t nication po 9 V/mSec. he commu	the front ports or the or A/mSe	panel. front pan c. Progran	el. nming via	the panel.	

# **G**ENESYS<sup>™</sup> **G**SP15kW SERIES SPECIFICATIONS

OUTPUT RATING		GSP	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)		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		٧	10	20	30	40	50	60	80	100	150	200	300	400	500	600
0. 0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0			3-Phase, 2							100	150	200	1 500	100	500	000
1.Input voltage/freq. 3 phase, 3 wii	re + Ground (*4)		3-Phase, 4							ic)						
			3-Phase, 4								0Vac)					
	3-Phase, 200V models:		52.5A @ 200Vac													
100% load	3-Phase, 400V models:		27.6A @ 38													
	3-Phase, 480V models:		27.6A @ 380Vac													
3.Power Factor (Typ)																
4.Efficiency (Typ) (*5) (*22)		%		89 (*21)   90   91   91   91   91   91   91   91												92
5.Inrush current (*6) 6.AC line phase imbalance		A %	< 5%	150A												
			V 370													
CONSTANT VOLTAGE MODE		V	10													600
1.Max. Line regulation (*7)			0.01% of ra	ated outp	ut voltage	!										
2.Max. Load regulation (*8)			0.01% of ra	ated outp	ut voltage	+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 rate	d output v	voltage, fo	ollowing 3	0 minutes	warm-up							
6.Temperature stability			0.01% of ra	50PPM/°C from rated output voltage, following 30 minutes warm-up. 0.01% of rated Vout over 8hrs interval following 30 minutes warm-up. Constant line, load & temp.												
7. Warm-up drift			Less than	0.05% of r	ated outp	ut voltage	e+2mV ov	er 30 minu	ites follow	ing powe	r on.					
8.Remote sense compensation/wii	re (*10)	٧	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 o	utput volt	tage to red	over with	in 0.5% o	fits rated	output for	a load ch	ange 10~	90% of rat	ted outpu	t current.	Output se	t-point:
			10~100%,		se. Less th	an 1m5, fo	or models	up to and	lincluding	100V. 2m	S, for mod	dels above	e 100V.			
12Start up delay Sec Less than 7 Sec																
CONSTANT CURRENT MODE		٧	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Max. Line regulation (*7)			0.05% of ra	ated outp	ut current		•			•						
2.Max. Load regulation (*13)			0.08% of r	ated outp	ut current											
3.Ripple r.m.s. @ 10% rated voltage	B.W 5Hz~1MHz. (*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. (TA 25°C)	mA	1200	700	300	150	130	90	60	35	23	23	7.5	7.5	8	6
F Tomporature coefficient		PPM/°C	10V~100V	100PP	M/°C from	rated out	tput curre	nt, follow	ing 30 mir	utes warr	n-up.					
5.Temperature coefficient		FFIVI/ C	150V~600	V 70PPN	1/°C from	rated outp	out curren	t, followir	ng 30 minu	ıtes warm	-up.					
6.Temperature stability			0.01% of ra	ated lout o	over 8hrs.	interval fo	ollowing 3	0 minutes	warm-up	. Constan	t line, load	d & tempe	rature.			
7. Warm-up drift			10V~100V model: Less than +/-0.25% of rated output current over 30 minutes following power on. 150V~600V: Less than +/-0.15% of rated output current over 30 minutes following power on.													
7. Warm-up unit			150V~600	V: Less tha	an +/-0.15	% of rated	output c	urrent ove	r 30 minu	tes follow	ing powe	r on.				
ANALOG PROGRAMMING AND M	ONITORING (ISOLATED	FROMT	HE OUTPU	T)												
1.Vout voltage programming			0~100%, 0		10V user	selectable	Accurac	v and line	arity: +/-0	15% of rat	ted Vout					
2.lout voltage programming (*15)																
3.Vout resistor programming																
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 (*23)			0~5V or 0~10V, user selectable. Accuracy: +/-0.5% of rated Vout.													
6.Output current monitor (*15) (*2	3)		0~5V or 0~10V, user selectable. Accuracy: +/-0.5%. of rated lout.													
SIGNALS AND CONTROLS (ISOLAT	FED FROM THE OUTDUIT															
1. Power supply OK #1 signal	TED FROM THE OUTPUT		Power sup			0	II O.		0 0	+ 044 044	Marrian	- V-l+	201/ 14		C	10 1
2. CV/CC signal			CV/CC Mo												Current	IUIIIA.
3. LOCAL/REMOTE Analog control			Enable/Di												/ or open	
4. LOCAL/REMOTE Analog control			analog pro													
5. ENABLE/DISABLE Signal			Enable/Di												JIIIK CUITE	iic. iviliA.
6. INTERLOCK (ILC) control			Enable/Di													
7. Programmed signals			Two open													
	,		Maximum												sitive eda	e trigger:
8. TRIGGER IN / TRIGGER OUT signa	ais		tw=10us n											po		9901.
9. DAISY_IN/SO control signal			By electrical Voltage: 0~0.6V/2~30V or dry contact.													
10. DAISY_OUT/PS_OK #2 signal			4~5V=OK,	0V (500ol	hm impec	lance)=Fai	il									
FUNCTIONS AND FEATURES																
1. Parallel operation	T		Possible. U	In to four	(4) identic	al GSP un	its. For me	ore nower	please co	nsult with	Factory					
2. Series operation			Consult w			Cor um	01 1110	power	F. Case CO	WILL						
3. Daisy chain			Power sup			cted in Da	isy chain t	to synchro	nize their	turn-on a	nd turn-0	off.			-	
4. Constant power control			Limits the										the front	oanel.		
5. Output resistance control			Emulates												el.	-
· ·			Programm	able Out	out rise an	d Output	fall slew r									the
6. Slew rate control			communic	ation por	ts or the f	ront pane	I.									
7. Arbitrary waveforms			Profiles of	up to 100	steps can	be stored	l in 4 men	nory cells.	Activation	by comn	nand via t	he commi	unication	ports or b	y the fron	t panel.
PROGRAMMING AND READBACK	(USB, LAN,	.,	10	20	20	40	F.0	60	60	100	150	200	200	400	F00	600
RS232/485, Optional IEEE (*19)(*:	20) Interfaces)	V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Vout programming accuracy (*16	5)		0.05% of ra	ated outp	ut voltage											
2.lout programming accuracy (*15	5)		0.3% of rat	ted outpu	t current											
3.Vout programming resolution			0.002% of													
4.lout programming resolution			0.002% of	rated out	put currer	nt										
5.Vout readback accuracy			0.05% of r	ated outp	ut voltag	e										
6.lout readback accuracy (*15)			0.2% of ra													
7.Vout readback resolution (of rate		%	0.011%		0.004%	0.003%	0.003%	0.002%	0.002%	0.011%	0.007%	0.005%	0.004%	0.003%	0.003%	0.002%
8.lout readback resolution (of rate	d output current))	%	0.012%	0.003%	0.003%	0.004%	0.004%	0.005%	0.006%	0.008%	0.012%	0.002%	0.003%	0.003%	0.003%	0.005%

# GENESYS™ GSP10kW/15kW SERIES SPECIFICATIONS

PROTECTIVE FUNCTIONS		V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Foldback protection			Output sh User pres	nut-down etable. Re	when pov	wer suppl	y changes ycle in aut	mode fror ostart mod	m CV or Po de, by Pov	ower Limit ver Switch	to CC mo , by OUTP	de or fron UT butto	n CC or Po n, by rear p	wer Limit to	to CV mod y communi	e. ication.
2.Over-voltage protection (OVP)														mmunicati		
3.Over -voltage programming rar		V		1~24			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	5~661.5
4. Over-voltage programming acc			+/-1% of r													
5.Output under voltage limit (UVI	_)								n analog	programm	ning. Prese	et by front	t panel or	communic	cation port	
6.Over temperature protection 7. Output under voltage limit (UV)	1)		Shuts down the output. Auto recovery by autostart mode.  Prevents adjustment of Vout below limit.													
7. Output under voltage limit (0V	L)															
8. Output under voltage protection	on (UVP)		Prevents mode, by	Power Sw	nt of Vout vitch, by C	below lim	nit. P.S outp utton, by re	out turns ( ear panel o	or by com	under vo municatio	Itage cond on.	dition. Res	set by AC i	nput recyc	cle in autos	start
FRONT PANEL																
1.Control functions			Multiple o	options w	ith 2 Enco	ders										
			Vout/lout	t/Power Li	mit manu	ıal adjust										
			OVP/UVL													
							oldback, C									
			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.													
			Analog Control Functions - Selection Voltage/resistive programming, 5V/10V, 5K/10K programming  Analog Monitor Functions - Selection of Voltage/Current Monitoring 5V/10V.													
2.Display			Analog Monitor Functions - Selection of Voltage/Current Monitoring 5V/10V.  Vout: 4 digits, accuracy: 0.05% of rated output voltage +/-1 count.													
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	-									N.CONFIG	URATION.	SYSTEM,	SEOUENC	ER.		
			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.														
<b>ENVIRONMENTAL CONDITIONS</b>																
1.Operating temperature			0~50°C, 1	00% load												
2.Storage temperature			-30~85°C													
3.Operating humidity		%	20~90% F	RH (no cor	ndensatio	n).										
4.Storage humidity		%	10~95% F													
5.Altitude (*17)			Operating: 10000ft (3000m), output current derating 2%/100m or Ta derating 1°C/100m above 2000m. Non operating: 40000ft (12000m).													2000m).
MECHANICAL		-	-	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(2222,)									- p		
1.Cooling			Forced air	r coolina l	ov interna	l fans. Air	flow direc	ion: from	Front par	nel to pow	er supply	rear				
2.Weight	GSP 10kW	kg	Less than		,					р						
3.Dimensions (WxHxD)	GSP 10kW	mm	W: 423, H	l: 88, D: 44			s and busb s and busb			relief) (Ref	er to Outlii	ne drawin	g).			
2.Weight	GSP 15kW	kg	Less than		- (					, (			3/-			
3.Dimensions (WxHxD)	GSP 15kW	mm	W: 423, H	H: 132.5, D	): 441.5 (W ): 640 (Inc	/ithout bu	sbars and	busbars co	over), over, and s	strain relief	f) (Refer to	Outline o	drawing).			
4.Vibration							est condit									
5.Shock			Less than	20G, half	sine, 11m	Sec. Unit i	s unpacke	d.								
SAFETY/EMC	1		I													
1. Applicable standards:	Safety						51010-1, EN , J5, J6, J7,		9. IO (com	municatio	n ontions	) are Non	Hazardou			
1.1. Interface classification															n Hazardo	us.
1.2 Withstand voltage			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) IN (sens	335VDC - Models: Ir e) - J1, J; e) - Grou Models: e) - J1, J; e) - Grou 335VDC -	1min. nput – Ou 2, J3, J4, ınd: 1500' Input – O 2, J3, J4, ınd: 2500 1min.	tput & J8 J5, J6, J7 VDC 1min utput & J8 J5, J6, J7 VDC 1mir	(sense), J & J9 (co , Input - (	11, J2, J3 mmunica Ground: 2 muni	, J4, J5, J ation option 2835VDC	16, J7 & J9 ons): 850\ 1min. ons) 275	9 (commi /DC 1mir	unication n. nmunication		'DC 1min, 4242VDC s): 4242VE	
1.3 Insulation resistance			GSP10kW	/15kW: 60	Mohm at	25°C, 709	6RH. Outp	o Gro		OWE	:R					
2.Conducted emmision			IEC/EN612	204-3 Ind	ustrial env	/ironment	, Annex H	table H.1 ,	FCC Part	15-A, VCCI	-A.					
3.Radiated emission							, Annex H					Dietr	ihut	or		
4. EMC compliance	EMC(*18)					/ironment				* C1 -	JIVI	الحاد	ut	<i>-</i> 1		
	1															

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

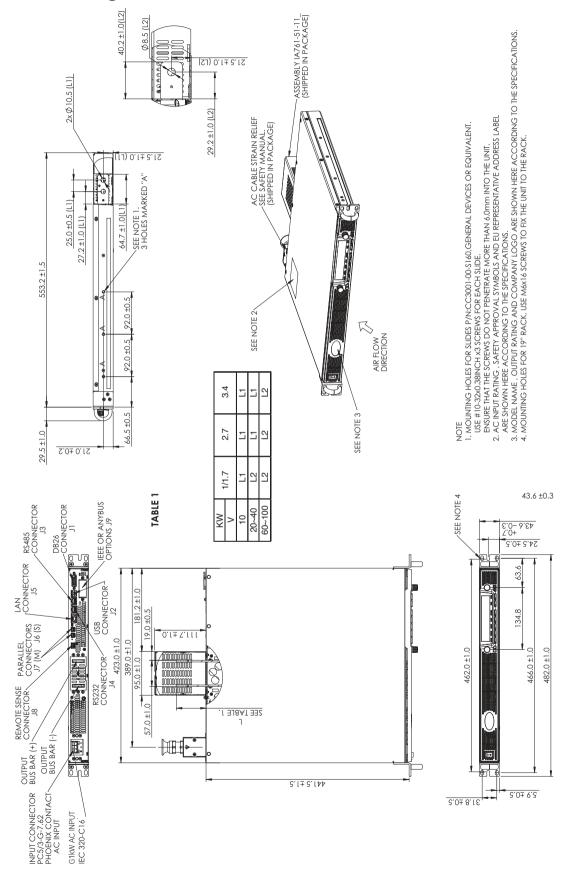
sales@ppm.co.uk

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

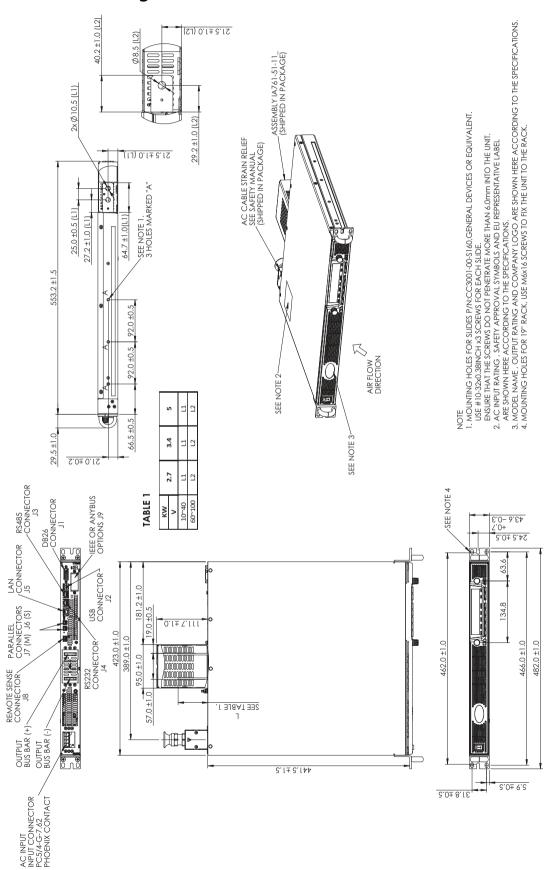
- \*\*NOTES:
  \*\*Nimimum voltage is guaranteed to maximum 0.1% of rated output voltage.
  \*\*2: Minimum current is guaranteed to maximum 0.2% of rated output current.
  \*\*3: GSP 10kW- Derate 10A/1°C above 40°C.
  \*\*4: For cases where conformance to various safety standards (UL, IEC, etc...) is 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 po@\$ Shrivenham Hundred Business Park
  6: Not including EMI filter inrush current, less than 0.2mSec.
  \*\*7: 3-Phase 200V models: 170-265Vac, 3-Phase 400V4 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 JETIA RC-9131C (1:1) probe. For 200-600V 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% or 90% to 10% of Rated Output Voltage, with rated, resistive load.
  \*\*11: From 90% to 10% of Rated Output Voltage, with rated, resistive load.
  \*\*12: Fron 90% to 10% of Rated Output Voltage rating, constant input voltage, equal to the unit voltage rating, constant input voltage, 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 Tal derating 2\*C/100m.\*\*
  \*\*18:\*Signal and control ports interface cables length: Less than 3m, DC output power port cables length: Less than 30m.
  \*\*19:Max. ambient temperature for using IEEE is 800A up to 40°C and 900A up to 30°C.
  \*\*20:GS915kW For 10V model only: Max. output current for using IEEE is 800A up to 40°C and 1350A up to 30°C.
  \*\*21: F

- \*22: Typ. at Ta=25°C, rated output power. \*23: For steady state only.

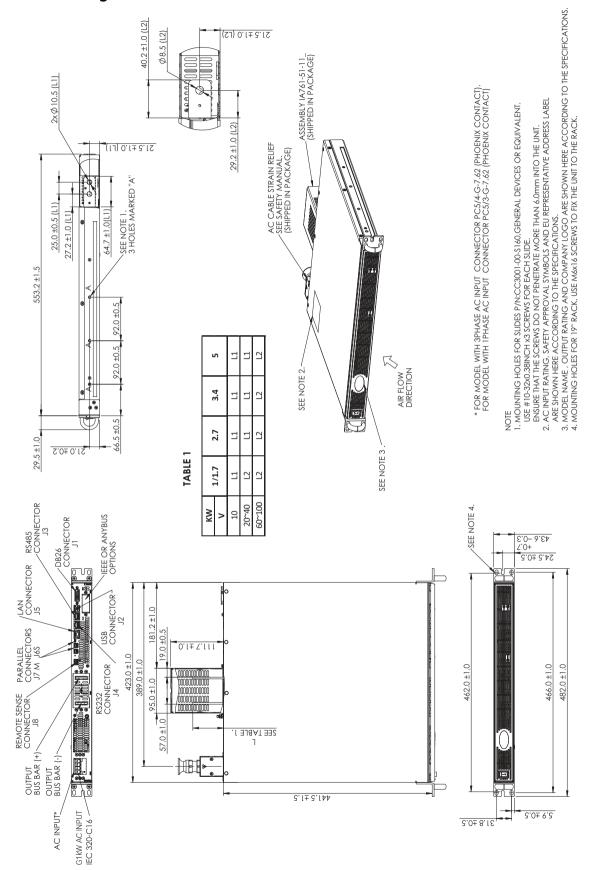
# Outline Drawing GENESYS™ G1kW/1.7kW/2.7kW/3.4kW - 1-Phase



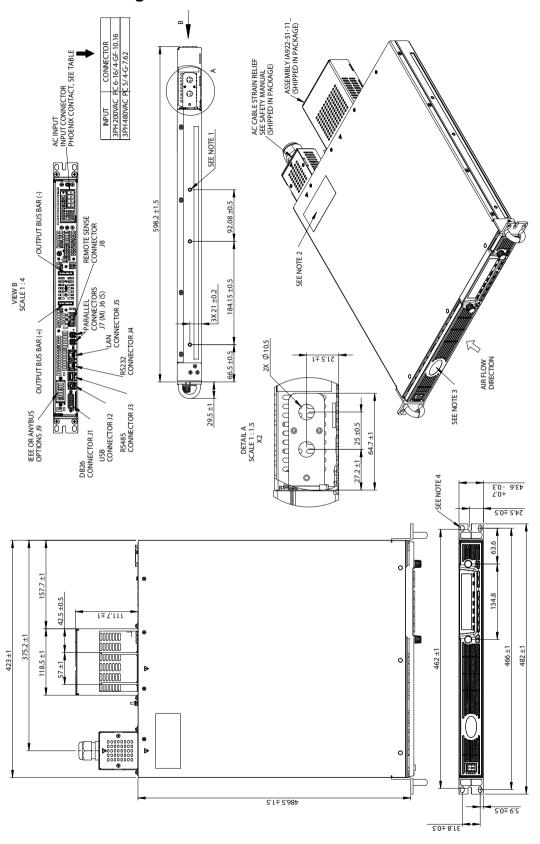
# Outline Drawing GENESYS™ G2.7kW/G3.4kW/G5kW - 3-Phase



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



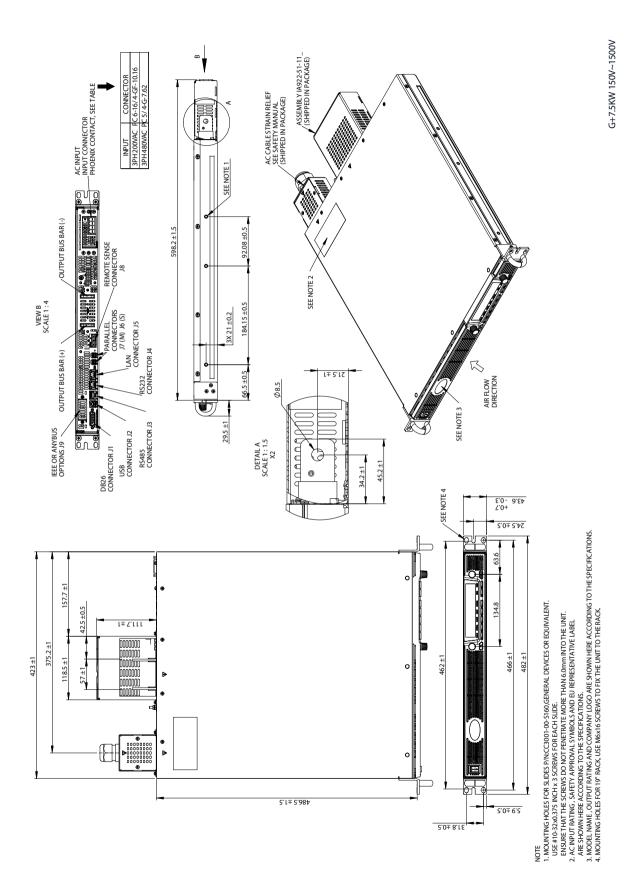
# Outline Drawing GENESYS™ G7.5kW - LV (20V-100V) 3-Phase



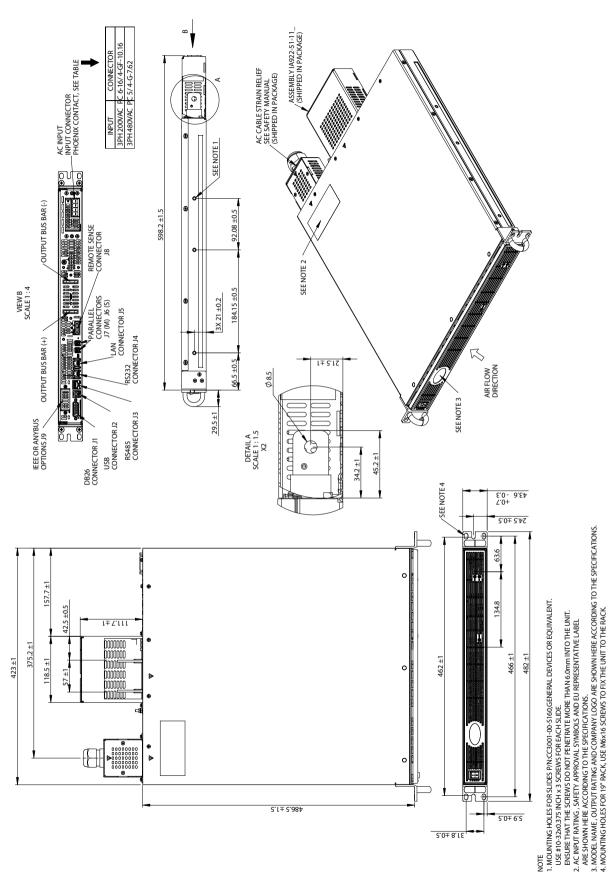
G+7.5KW 20V~100V

<sup>1.</sup> MOUNTING HOLES FOR SLIDES PAR.CG3001-00-5160,GENERAL DEVICES OR EQUIVALENT.
US# #10-320-325 (MAY AS SCREWS FOR MEACH 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 SHOWN HERE ACCORDING TO 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.

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

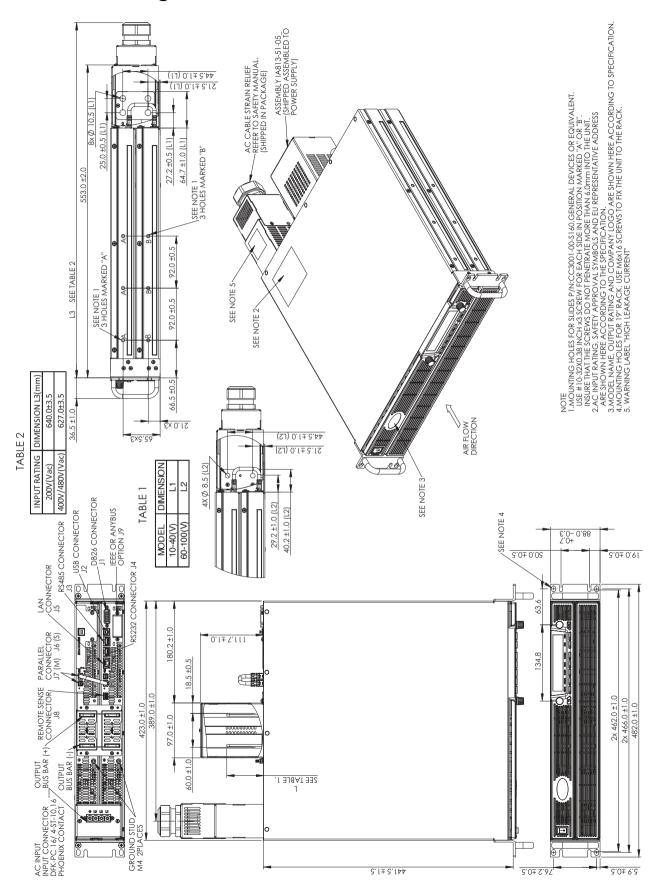


# Outline Drawing GENESYS™ GB7.5kW ATE Version

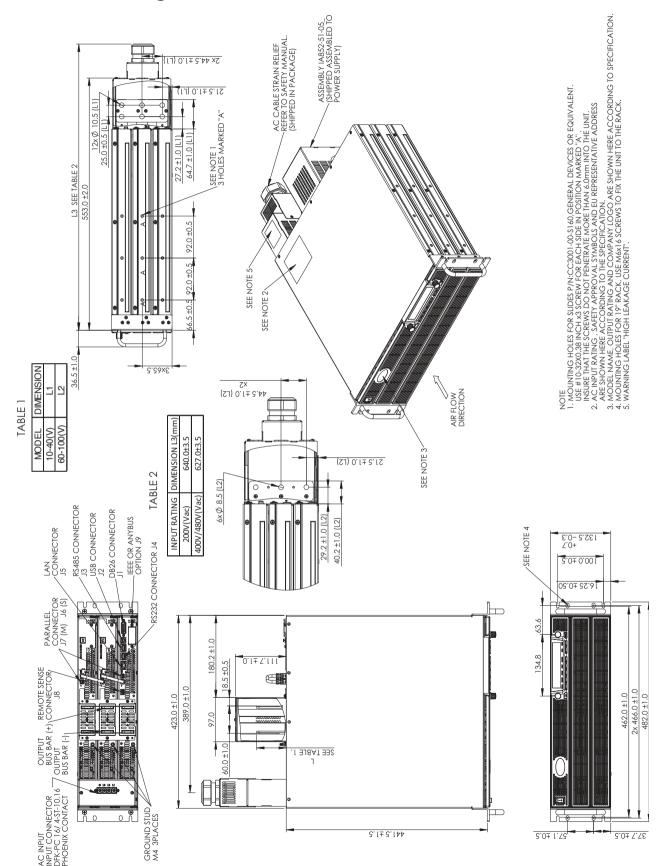


G+7.5KW BLANK 150V~1500V

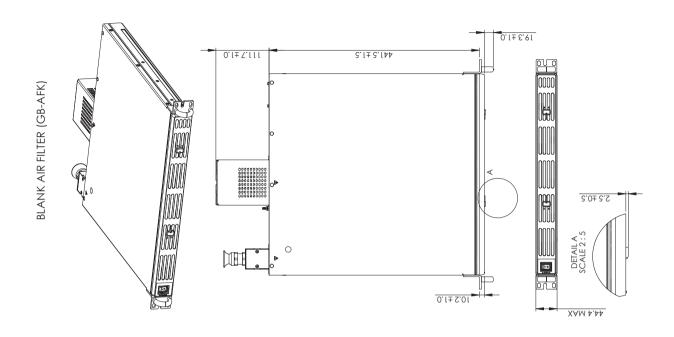
# Outline Drawing GENESYS™ GSP10kW

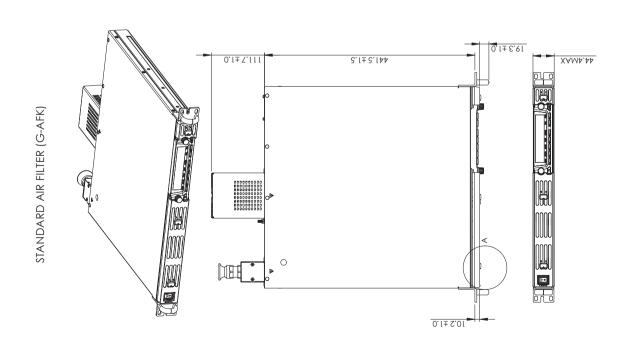


# Outline Drawing GENESYS™ GSP15kW



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





# Front Panel Air Filter Assembly

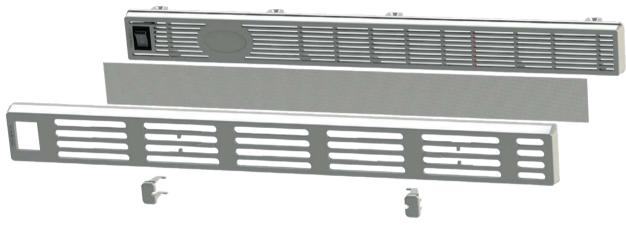
Front panel dust cover is available for dusty air environment applications

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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Series Rev