

G∉**NESYS**[™]

Programmable Power Supplies



TDK-Lambda Trusted · Innovative · Reliable

G∉NESYS[™]

The next generation has arrived. And it's small and mighty.

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

+High functionality

+Smallest and lightest product on the market

+Versatile communication protocols

+Simplifies control

*Speeds up test times



Features

General

- 1U benchtop and 19 Inch standard rack package
- Constant voltage/constant current operation modes/constant power (CP) Limit
- Internal Resistance Simulation

Control interfaces

- High resolution 16 bit ADCs & DACs
- LAN (LXI 1.5), USB, RS-232/RS-485 built-in as standard
- Isolated Analogue interface built-in as standard
- Optional EtherCAT, Modbus-TCP, IEEE (488.2) Interfaces
- Communications compatible with Z+ and Genesys[™]

Programming

- Arbitrary Waveform Generator with Auto-Triggering (store up to 100 steps into four internal memory cells)
- Slew-Rate Control (V/I)
- Two user programmable output control pins (open drain) to activate external devices
- Easy auto-configuration for parallel systems up to 60kW
- Safe or Auto re-start and last settings memory
- Certified LabWindows TM/CVI, LabView TM and IVI Drivers

Environmental

- Fan speed profile controlled by ambient temperature and load
- Efficiency up to 92%

Mechanical

- High contrast, wide viewing angle LCD display with brightness and dimming control
- · Blank front panel option
- Front Panel dust filter option
- Rackmount-Kit for Half-Rack models option

Specifications

- 1kW, 1.5kW models in 1U, half 19" Rack-Mount
- 1, 1.7, 2.7, 3.4, 5kW models in 1U
- 10kW in 2U / 15kW in 3U
- Wide Range of popular worldwide AC inputs: GH1kW/1.5kW: 1Ø (85~265Vac) G1kW/1.7kW: 1Ø (85~265Vac)
 G2.7/3.4kW: 1Ø (170~265Vac), 3Ø (208, 400 & 480Vac)
 G5kW - G15kW: 3Ø (208, 400 & 480Vac),
 Wide range 3Ø 480Vac (342~528Vac)
- Output Voltage up to 600V, Current up to 1500A
- 5 year warranty

Applications

- Test & Measurement systems, Component Device Testing, Manufacturing and process control
- Semiconductor Processing & Burn-In, Aerospace & Satellite Testing, Medical Imaging, Green Technology
- ATE, Automotive, Automation, Laser diodes, Battery simulation
- Higher power systems can be configured with up to twelve (12) 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

Find out more at: www.emea.lambda.tdk.com/genplus



GENESYS[™] Panel Description

Front Panel GENESYS+™ GH (1-1.5kW) **NEW**



- 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

Rear Panel GENESYS+™ GH (1-1.5kW) NEW



- 1. Isolated Analogue 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 (LN 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; Output connector: PHOENIX CONTACT GIC 2.5/4-G-7.62 for models with Outputs >100V Plug connector: PHOENIX CONTACT GIC 2.5/4-ST-7.62 for models with Outputs >100V
- 8. GH1.5kW Input: 85~265Vac, Single Phase, 50/60Hz
 - AC Input Connector: PHOENIX CONTACT Power Combicon PC 5/3-G-7.62
 AC Input Plug Connector: PHOENIX CONTACT Power Combicon PC 5/3-STCL1-7.62 Series with strain relief (Model shown)
 GH1kW 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 (M3x8mm screw)
- 12. Reset button. Set default Power Supply settings

Front Panel GENESYS+™ G (1-5kW)



- 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

Rear Panel GENESYS+™ G (1-5kW)



- 1. Isolated Analogue 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 (LN 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: 208, 400 & 480Vac, Three Phase, 50/60Hz (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, 50/60Hz 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

Front Panel GENESYS+™ GSP (10kW)



- 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

Rear Panel GENESYS+™ GSP (10kW)



- 1. Isolated Analogue 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 DFK-IPC 16/4-STF-10.16 for models with Outputs >100V
- Input: 208, 400 & 480Vac Three Phase, 50/60Hz
 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

Front Panel GENESYS+™ GSP (15kW)



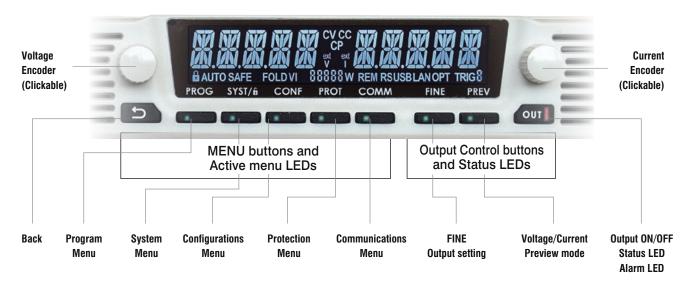
- 1. Input Power ON/OFF Switch
- 2. Air Intake allows zero stacking for maximum system flexibility and power density
- 3. Reliable Detent Encoders for settings and Menu navigation
- 4. High Contrast/Brightness display with wide viewing angle, 16 segment LCD
- 5. Function/Status LEDs: Active modes and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

Rear Panel GENESYS+™ GSP (15kW)

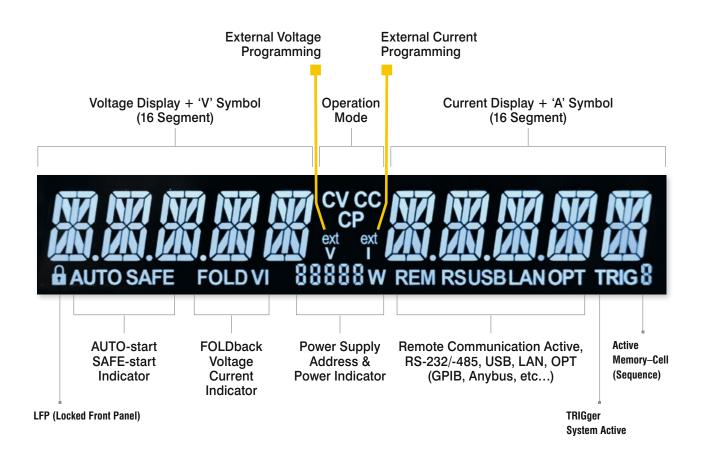


- 1. Isolated Analogue Programming, Monitoring and other control connector (DB26 Female)
- 2. USB Interface connector (Type B)
- 3. RS-232/RS-485 IN/OUT Remote Digital Interface (RJ-45 type) for Multi-Drop connection
- 4. LAN (LXI 1.5) Interface connector (RJ-45 type with LAN status indicators)
- 5. 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 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)
- Input: 208, 400 & 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



GENESYS+™ GHB 1-1.5kW Series Blank Front Panel

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



GENESYS+™ GH Parallel and Series Configurations

Parallel operation - Master/Slave

- Auto paralleling Scalable Master-Slave Operation
- Active current sharing allows up to four identical units to be connected
- Total Real Current is programmed, measured and reported by the Master
- Up to four supplies operate as one



Standard Unit - Zero stacked up to 4 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.







GENESYS+™ G&GSP Series Blank Front Panel

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



GENESYS+™ 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





Standard Unit - Zero stacked up to 12 units

Standard & Blank - Zero stacked up to 12 units

Scalable Power Systems

Factory assembly and test available for two and three unit systems 10kW/15kW. Parallel kit available for six unit systems 30kW. Order P/N: G/P - 6U





GSP 10kW in 2U

10

GSP 15kW in 3U

Series operation

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

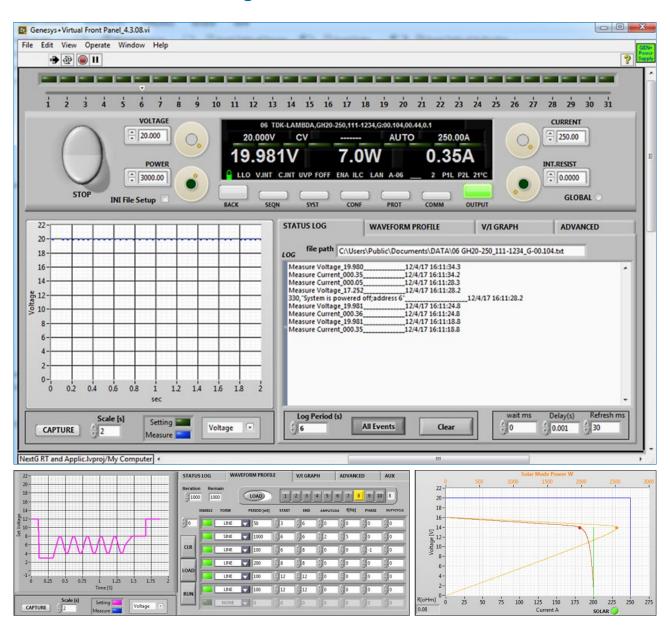
GENESYS[™] User Interface

Graphical User Interface

Advanced "Virtual Front Panel" allows programming and monitoring units with or without front panel display.

- Control and monitor up-to 31 units with "Address" bar
- Front panel set-up menu control (PROGram, SYSTem, CONFIguration, PROTection and COMMunication)
- Informative "Parameters" status bar
- Individual unit and Global command control
- Data logging including errors, events and recovery
- Realtime Graph and Waveform creator, store/load sequence
- Solar array mode calculate MPP (Max Peak Power) for solar array
- Registers View: Operation Status, Fault, Event Status, ENABLE and INTERLOCK signals
- Remote communication state LOC, REM, LLO
- Programmed signals 1&2

GUI Waveform Profile generator



GENESYS[™] Air Filter Kit

GENESYS+™ 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

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)

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)

Filter Foam Technical Specifications

- Material: reticulated polyurethane foam
- Thickness: 3.8mm
- Porosity: 45ppi
- Operating Temperature Range: 0°C to +60°C
- \bullet Storage Temperature Range: -40°C to $+85^{\circ}\text{C}$
- Humidity: 95% RH

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

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

GENESYS[™] Product Summary

GENESYS+™ Family Output Voltage and Current

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

AC Input Range

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

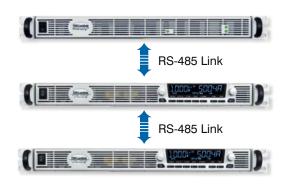
Multi-Drop Remote Programming via Communication Interface

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.







Models GENESYS+™ GH (1/1.5kW) **NEW**

Models 1kW

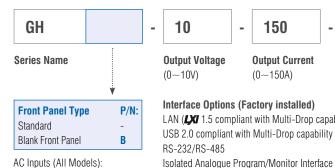
Model	Voltage [V]	Current [A]	Power [W]
GH10-100	0~10	0~100	1000
GH20-50	0~20	0~50	1000
GH30-34	0~30	0~34	1020
GH40-25	0~40	0~25	1000
GH60-17	0~60	0~17	1020
GH80-12.5	0~80	0~12.5	1000
GH100-10	0~100	0~10	1000
GH150-7	0~150	0~7	1050
GH300-3.5	0~300	0~3.5	1050
GH600-1.7	0~600	0~1.7	1020
Weight [kg/lb]	3.5/7.7		

Models 1.5kW

Model	Voltage [V]	Current [A]	Power [W]
GH10-150	0~10	0~150	1500
GH20-75	0~20	0~75	1500
GH30-50	0~30	0~50	1500
GH40-38	0~40	0~38	1520
GH60-25	0~60	0~25	1500
GH80-19	0~80	0~19	1520
GH100-15	0~100	0~15	1500
GH150-10	0~150	0~10	1500
GH300-5	0~300	0~5	1500
GH600-2.6	0~600	0~2.6	1560
Weight [kg/lb]	3.5/7.7		

Product Code

Single Phase: 85~265Vac



P/N: AC Cable Options 1kW only P/N: LAN (LXI 1.5 compliant with Multi-Drop capability) Europe Ε North America U Japan J Isolated Analogue Program/Monitor Interface China C (5V/10V Pgm/Mon with 600V isolation) Middle East **Interface Options (Optional)** P/N: **Accessories Options** P/N: IEEE (488.2 & SCPI compliant with IFFF Printed User Manual M Multi-Drop capability installed) (User Manual & GUI on website) Modbus-TCP **MDBS** Bus Paralleling Cable Ρ EtherCat **ECAT**

AC Cable Options

(only for 1kW)

Accessories P/N:

Rack Mounitng applications

The Rack Mounted kit allows the units to be zero stacking for maximum system flexibility and power density without increasing the 1U height of the units. To install one GH1-1.5kW unit or two units side-by-side

Interface

Options

in a standard 19" rack in 1U(1.75") height, use option kit

Single unit installation

Single GH1kW/1.5kW power supply in a standard 19" rack in 1U(1.75") height Dual unit installation

Two GH1kW/1.5kW power supplies side-by-side in a standard 19" rack in 1U (1.75") height

Benchtop applications Multi Output

The benchtop stacking kit allows the units to be Zero stacked for maximum system flexibility and power density without increasing the 1U height of the units.

To install a GH1kW/1.5kW two units one on top of the other use option kit



Accessories

Options

GH/RM

GH/MO

GH/M0-2U

Models GENESYS+™ G (1/1.7kW)

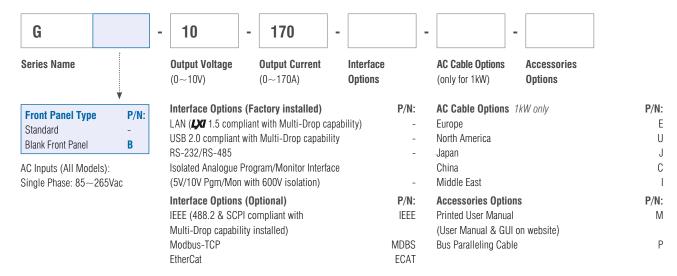
Models 1kW

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

Models 1.7kW

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

Product Code



Accessories

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

2. Serial Link cable (included with the power supply) Daisy-chain up to 31 GENESYS+™ power supplies.

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

3. Bus Paralleling cable

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

4. User Manual		
Printed User Manual		G/M

Models GENESYS+™ G (2.7/3.4kW)

Models 2.7kW

Model Voltage [V] Current [A] Power [W] G10-265 0~10 $0 \sim 265$ 2650 G20-135 0~20 0~135 2700 G30-90 $0 \sim 30$ $0\sim90$ 2700 G40-68 $0 \sim 40$ $0\sim68$ 2720 G60-45 $0 \sim 60$ 0~45 2700 G80-34 0~80 0~34 2720

 $0\sim27$

0~18

0~9

 $0\sim4.5$

2700

2700

2700

2700

Models 3.4kW

Model	Voltage [V]	Current [A]	Power [W]
G10-340	0~10	0~340	3400
G20-170	0~20	0~170	3400
G30-112	0~30	0~112	3360
G40-85	0~40	0~85	3400
G60-56	0~60	0~56	3360
G80-42	0~80	0~42	3360
G100-34	0~100	0~34	3400
G150-22.5	0~150	0~22.5	3375
G300-11.5	0~300	0~11.5	3450
G600-5.6	0~600	0~5.6	3360

Product Code

 $0 \sim 100$

 $0 \sim 150$

 $0 \sim 300$

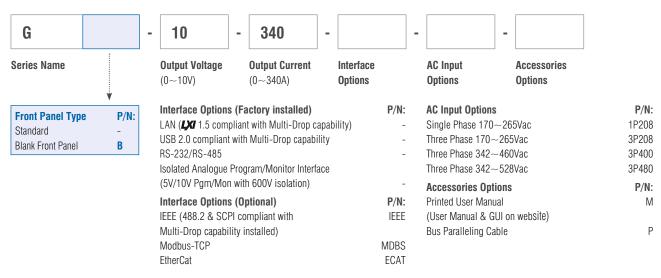
0~600

G100-27

G150-18

G300-9

G600-4.5



Accessories

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

2. Serial Link cable (included with the power supply) Daisy-chain up to 31 GENESYS+™ power supplies.

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

3. Bus Paralleling cable

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

16

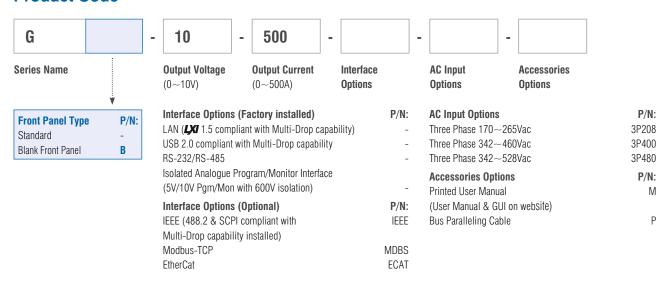
4. User Manual		
Printed User Manual		G/M

Models GENESYS+™ G (5kW)

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

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

Product Code



Accessories

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

2. Serial Link cable (included with the power supply) Daisy-chain up to 31 GENESYS+™ power supplies.

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

3. Bus Paralleling cable

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

4. User Manual

Printed User Manual		G/M

5. Parallel Kit: 20/30kW

5. Faraniei Kit. 20/30kW	
BusBar Parallel Kit for 20 kW operation (5kW Models where Vout up to 100V)	G/P-4U
BusBar Parallel Kit for 30 kW operation (5kW Models where Vout up to 100V)	G/P-6U

Models GENESYS+™ GSP (10/15kW)

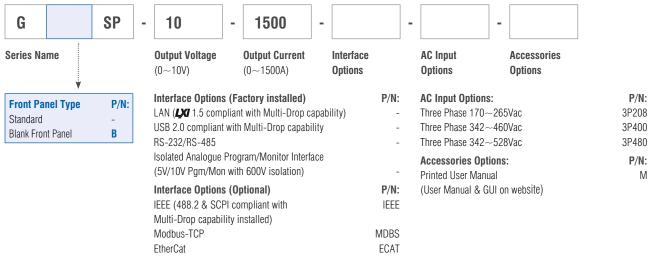
Models 10kW

	V-11 D/1	0	D
Model	Voltage [V]	Current [A]	Power [kW]
GSP10-1000	0~10	0~1000	10
GSP20-500	0~20	0~500	10
GSP30-340	0~30	0~340	10.2
GSP40-250	0~40	0~250	10
GSP50-200	0~50	0~200	10
GSP60-170	0~60	0~170	10.2
GSP80-130	0~80	0~130	10.4
GSP100-100	0~100	0~100	10
GSP150-68	0~150	0~68	10.2
GSP200-50	0~200	0~50	10
GSP300-34	0~300	0~34	10.2
GSP400-26	0~400	0~26	10.4
GSP500-20	0~500	0~20	10
GSP600-17	0~600	0~17	10.2

Models 15kW

Model	Voltage [V]	Current [A]	Power [kW]
GSP10-1500	0~10	0~1500	15
GSP20-750	0~20	0~750	15
GSP30-510	0~30	0~510	15.3
GSP40-375	0~40	0~375	15
GSP50-300	0~50	0~300	15
GSP60-255	0~60	0~255	15.3
GSP80-195	0~80	0~195	15.6
GSP100-150	0~100	0~150	15
GSP150-102	0~150	0~102	15.3
GSP200-75	0~200	0~75	15
GSP300-51	0~300	0~51	15.3
GSP400-39	0~400	0~39	15.6
GSP500-30	0~500	0~30	15
GSP600-25.5	0~600	0~25.5	15.3

Product Code



Accessories

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

$\underline{\text{1. Serial Communication cable} - \text{RS-232/RS-485 cable is used to connect the power supply to the Host PC.}\\$

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

3. Bus Paralleling cable (included with the power supply)

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

3. User Manual

o. Osci manuai	
Printed User Manual	G/M

GENESYS[™] Specifications

Specifications GENESYS+™ GH (1kW)

Output Rating	GH	10-100	20-50	30-34	40-25	60-17	80-12.5	100-10	150-7	300-3.5	600-1.7
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)		85~265Vac	, continuous	s, 47~63Hz, S	lingle Phase						
2. Maximum Input current at 100% load (100/200)	Α	12.5/6.5									
3. Power Factor (Typ)		0.99 @ 100	Vac 0.98 @	200Vac, rate	d output powe	er.					
4. Efficiency at 100Vac/200Vac, rated output (*17)	%	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 50									
Constant Voltage Mode	V	10	20	30	40	60	80	100	150	300	600
1. Max. Line regulation (*6)		0.01% of rat	ed output vo	Itage							
2. Max. Load regulation (*7)		0.01% of rat	ed output vo	Itage +2mV							
3. Ripple and noise (p-p, 20MHz) (*8)	mV	50	50	50	60	60	75	75	75	200	500
4. Ripple r.m.s. 5Hz~1MHz (*8)	mV	6	6	6	7	7	10	20	20	50	100
5. Temperature coefficient	PPM/°C	50PPM/°C fi	rom rated ou	tput voltage, fo	ollowing 30 n	ninutes warm-	·up.				
6. Temperature stability		0.01% of rat	ed Vout over	8hrs interval	following 30	minutes warm	-up. Constant	line, load & te	emp.		
7. Warm-up drift		Less than 0.	01% of rated	l output voltage	e+2mV over	30 minutes fo	ollowing power	on.			
8. Remote sense compensation/wire (*10)	٧	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
10. Down-prog.response time: Full load (*12)	mS	30	30	60	60	60	60	80	120	220	220
No load (*12)	mS	500	700	900	1200	1500	1700	2000	2500	3300	3500
11. Transient response time	mS						or a load chan		1		10000
11. Handient response time	1110									models above	100V.
12. Start up delay	Sec	Less than 6		,			р				
13. Hold-up time	mS	20mS typica		ut nower							
Constant Current Mode	V	10	20	30	40	60	80	100	150	300	600
1. Max. Line regulation (*6)				rrent. +2mA	170	00	00	100	100	300	1000
2. Max. Load regulation (*9)				irrent. +5mA							
3. Ripple r.m.s. @ rated voltage. B.W 5Hz~1MHz. (*13)	mA	0.02 % 01 1at	eu output cu ≤160	≤100	≤60	≤50	≤30	≤20	≤10	≤8	≤5
11 0 0 7		10V~100V							≤10	≤0	≤0
1. Temperature coefficient	PPM/°C						0 minutes war minutes warm				
5. Temperature stability							-up. Constant		omnoraturo		
									•		
6. Warm-up drift				than +/-0.25	% or rated ou	ibul current o	ver 30 minutes	s tottowing bo	wer on.		
				1 / 0 15% of r			minutes falla		n		
Analogue Dragramming and Manitoring (lealate	d from th		/: Less than	+/-0.15% of r) minutes follo		n.		
		e Output)			ated output c	urrent over 30		wing power o			
1. Vout voltage programming		e Output) 0~100%, 0	~5V or 0~	10V, user sele	rated output o	eurrent over 30 acy and linear	ity: +/-0.15%	of rated Vout			
Analogue Programming and Monitoring (Isolate 1. Vout voltage programming 2. lout voltage programming (*14)		e Output) 0~100%, 0 0~100%, 0	~5V or 0~ ~5V or 0~	10V, user sele 10V, user sele	ctable. Accur	acy and linear	ity: +/-0.15% ity: +/-0.4% c	of rated Vout			
Vout voltage programming Iout voltage programming (*14) Vout resistor programming		e Output) 0~100%, 0 0~100%, 0 0~100%, 0	~5V or 0~ ~5V or 0~ ~5/10Kohm	10V, user sele 10V, user sele n full scale, us	ctable. Accur ctable. Accur ctable. Accur er selectable.	acy and linear acy and linear Accuracy and	ity: +/-0.15% ity: +/-0.4% o I linearity: +/-	of rated Vout of rated lout. 0.5% of rated	Vout.		
Nout voltage programming Iout voltage programming (*14) Vout resistor programming Iout voltage (*14) Iout resistor programming (*14)		0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0	~5V or 0~ ~5V or 0~ ~5/10Kohm ~5/10Kohm	10V, user sele 10V, user sele n full scale, us n full scale, us	ctable. Accurrectable. Accurrectable. Accurrectable. Accurrectable.	acy and linear acy and linear Accuracy and Accuracy and	ity: +/-0.15% ity: +/-0.4% o I linearity: +/- I linearity: +/-	of rated Vout of rated lout. 0.5% of rated	Vout.		
Vout voltage programming Iout voltage programming (*14) Vout resistor programming Iout resistor programming (*14) Output voltage monitor		e Output) 0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~5V or 0~	~5V or 0~ ~5V or 0~ ~5/10Kohm ~5/10Kohm ~10V, user s	10V, user sele 10V, user sele n full scale, us n full scale, us relectable. Acc	ctable. Accurretable. Accurretable. Accurretable. Accurrer selectable. er selectable. uracy: +/-0.	acy and linear acy and linear acy and linear Accuracy and Accuracy and 5% of rated Vo	ity: +/-0.15% ity: +/-0.4% of I linearity: +/- out.	of rated Vout of rated lout. 0.5% of 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)		e Output) 0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~5V or 0~	~5V or 0~ ~5V or 0~ ~5/10Kohm ~5/10Kohm ~10V, user s	10V, user sele 10V, user sele n full scale, us n full scale, us	ctable. Accurretable. Accurretable. Accurretable. Accurrer selectable. er selectable. uracy: +/-0.	acy and linear acy and linear acy and linear Accuracy and Accuracy and 5% of rated Vo	ity: +/-0.15% ity: +/-0.4% of I linearity: +/- out.	of rated Vout of rated lout. 0.5% of rated	Vout.		
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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)		e Output) 0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~5V or 0~ 0~5V or 0~ Power suppl	~5V or 0~ ~5V or 0~ ~5/10Kohm ~5/10Kohm 10V, user s 10V, user s y output mo	10V, user selection, user selection full scale, user selection full scale, user selection. Accorded to the control of the cont	ctable. Accur- ctable. Accur- ctable. Accur- er selectable. er selectable. uracy: +/-0. uracy: +/-0.	acy and linear acy and linear Accuracy and Society and Accuracy and Society of rated to Society of rated low ton: On. Outprode: Off. May	ity: +/-0.15% ity: +/-0.4% o I linearity: +/- t linearity: +/- but. ut. but Off: Off. Makimum Voltage	of rated Vout of rated lout. 0.5% of rated 0.5% of rated xximum Voltag 30V, Maxim	Vout. I lout. ge: 30V, Max um Sink Cur		
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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) 6. Output current monitor (*14) 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control		e Output) 0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~5V or 0~ 0~5V or 0~ Power suppl CV/CC Moni Enable/Disal Analogue pro Enable/Disal Enable/Disal	~5V or 0~ ~5V or 0~ ~5V or 0~ ~5/10Kohm ~5/10Kohm ~5/10Kohm ~10V, user s ~10V, user s y output mo tor. Open co ole analogue gramming co ole PS outpu ole PS outpu ole PS outpu ole PS outpu	10V, user selection, user selection full scale, user selection full scale, user selectable. Accordectable. Acco	ated output c ctable. Accurred ctable. Accurred er selectable. er selectable. uracy: +/-0. uracy: +/-0. Uracy: -/-0. control by el signal. Open c signal or dry	acy and linear acy and linear Accuracy and Accuracy and Accuracy and Format Indiana Accuracy and Accuracy and Accuracy and Accuracy and Accuracy and Indiana I	ity: +/-0.15% ity: +/-0.4% of linearity: +/- put. ut. but Off: Off. Makimum Voltage I or dry contacte: On. Local: 0 6.6V or short, 2 ote: 0~-0.6V o	of rated Vout of rated lout. 0.5% of rated 0.5% of rated aximum Voltag : 30V, Maxim : Remote: 0- off. Maximum V ~30V or oper	Vout. lout. Je: 30V, Max um Sink Cur -0.6V or she voltage: 30V, n. User selet: 2 ~30V or or	rent: 10mA. ort. Local: 2~3 Maximum Sink ctable logic. open.	OV or open.
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Specifications GENESYS+™ GH (1.5kW)

Output Rating	GH	10-150	20-75	30-50	40-38	60-25	80-19	100-15	150-10	300-5	600-2.
1. Rated output voltage(*1)	V	10	20	30	40	60	80	100	150	300	600
2. Rated output current (*2)	Α	150	75	50	38	25	19	15	10	5	2.6
3. Rated output power	W	1500	1500	1500	1520	1500	1520	1500	1500	1500	1560
Input Characteristics	V	10	20	30	40	60	80	100	150	300	600
. Input voltage/freq. (*3)		85~265Va	c, continuous,	, 47∼63Hz, S	ingle Phase						
2. Maximum Input current at 100% load (100/200)	Α	18.5/9									
3. Power Factor (Typ)		0.99 @ 100	OVac 0.98 @	200Vac, rated	d output powe	r.					
4. Efficiency at 100Vac/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)	A	Less than 50		1 /	1 4.744	1 3.7 33	1 /	1	1,	1 1 1 1 1	1 00,00
Constant Voltage Mode	V	10	20	30	40	60	80	100	150	300	600
1. Max. Line regulation (*6)		-	ed output vol		40	00	00	100	100	000	000
2. Max. Load regulation (*7)			ed output vol	-							
<u> </u>					100	00	1 75	100	75	100	500
3. Ripple and noise (p-p, 20MHz) (*8)	mV	50	50	50	60	60	75	130	75	180	500
I. Ripple r.m.s. 5Hz~1MHz (*8)	mV	6	6	6	7	7	8	30	20	45	100
5. Temperature coefficient	PPM/°C			put voltage, fo			•				
6. Temperature stability								line, load & to	emp.		
7. Warm-up drift		Less than 0.	01% of rated	output voltage	e+2mV over	30 minutes fo	llowing powe	r on.			
3. 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	20	30	30	40
0. Down-prog.response time: Full load (*12)	mS	20	20	20	30	30	50	50	60	70	80
No load (*12)	mS	300	500	600	900	1200	1300	1700	2200	2700	3000
Transient response time	mS							nge 10~90%			0000
	1110									models above	100V.
12. Start up delay	Sec	Less than 6		, === 0 0 1 0 0 11		, 101 1110				222.5 45010	
13. Hold-up time	mS		al, rated outpu	it nower							
Constant Current Mode	V	10	20	30	40	60	80	100	150	300	600
	_			1	40	00	00	100	130	300	000
. Max. Line regulation (*6)			ed output cur								
. Max. Load regulation (*9)			ed output cur	1		1	1	1	1		1 -
. Ripple r.m.s. @ rated voltage. B.W 5Hz~1MHz. (*13)	mA	≤250	≤130	≤100	≤60	≤50	≤30	≤40	≤10	≤8	≤5
. Temperature coefficient	PPM/°C	10V~100V		°C from rated							
				C from rated o							
5. Temperature stability					-		•	line, load & to	•		
6. Warm-up drift								s following po			
			V: Less than -	+/-0.15% of r	ated output c	urrent over 30	minutes follo	owing power o	n.		
Analogue Programming and Monitoring (Isolate	d from th										
1. Vout voltage programming		0~100%, 0	\sim 5V or 0 \sim 1	OV, user selec	ctable. Accura	icy and linear	ity: +/-0.15%	of rated Vout			
2. lout voltage programming (*14)		0~100%, 0	\sim 5V or 0 \sim 1	OV, user selec	ctable. Accura	icy and linear	ity: +/-0.4%	of rated lout.			
3. Vout resistor programming		0~100%.0	~5/10Kohm	4.111				0.50/ /			
			0/ 101(011111	iuii scale, use	er selectable.	Accuracy and	ı iinearity: +/	-0.5% of rated	Vout.		
, , ,							•	-0.5% of rated -0.5% of rated			
4. lout resistor programming (*14)		0~100%, 0	~5/10Kohm	full scale, use	er selectable.	Accuracy and	I linearity: +/				
4. lout resistor programming (*14) 5. Output voltage monitor		0~100%, 0 0~5V or 0~	~5/10Kohm ~10V, user s€	full scale, use electable. Acci	er selectable. uracy: +/-0.5	Accuracy and 5% of rated Vo	I linearity: +/ out.				
4. lout resistor programming (*14) 5. Output voltage monitor 6. Output current monitor (*14)		0~100%, 0 0~5V or 0~	~5/10Kohm ~10V, user s€	full scale, use	er selectable. uracy: +/-0.5	Accuracy and 5% of rated Vo	I linearity: +/ out.				
4. lout resistor programming (*14) 5. Output voltage monitor 6. Output current monitor (*14) Signals and Controls (Isolated from the Output)		0~100%, 0 0~5V or 0~ 0~5V or 0~	~5/10Kohm ~10V, user se ~10V, user se	full scale, use electable. Acci electable. Acci	er selectable. uracy: +/-0.5 uracy: +/-0.5	Accuracy and 5% of rated Vo 5% of rated lo	I linearity: +/ out. ut.	-0.5% of rated	lout.	imum Sink Cu	rent: 10m
4. lout resistor programming (*14) 5. Output voltage monitor 6. Output current monitor (*14) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal		0~100%, 0 0~5V or 0- 0~5V or 0-	~5/10Kohm ~10V, user se ~10V, user se	full scale, use electable. Acci electable. Acci electable. Acci	er selectable. uracy: +/-0.5 uracy: +/-0.5 lector. Outpu	Accuracy and 5% of rated Vo 5% of rated lo t On: On. Outp	I linearity: +/ out. ut. out Off: Off. M	-0.5% of rated	lout. ge: 30V, Maxi	imum Sink Cu	rrent: 10m/
4. lout resistor programming (*14) 5. Output voltage monitor 6. Output current monitor (*14) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal		0~100%, 0 0~5V or 0- 0~5V or 0- Power supp CV/CC Mon	~5/10Kohm ~10V, user se ~10V, user se ly output mon itor. Open col	full scale, use electable. Acci electable. Acci electable. Acci litor. Open col elector. CC mo	er selectable. uracy: +/-0.! uracy: +/-0.! lector. Outpu	Accuracy and 5% of rated Vo 5% of rated lo t On: On. Outplode: Off. Max ande: Off. Max	I linearity: +/ out. ut. out Off: Off. M kimum Voltage	-0.5% of rated aximum Volta e: 30V, Maxim	lout. ge: 30V, Maxi um Sink Curr	ent: 10mA.	
4. lout resistor programming (*14) 5. Output voltage monitor 6. Output current monitor (*14) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal 8. LOCAL/REMOTE Analogue control		0~100%, 0 0~5V or 0~ 0~5V or 0~ Power supp CV/CC Mon Enable/Disa	~5/10Kohm ~10V, user se ~10V, user se ly output mon itor. Open col ble analogue	full scale, use electable. Acci electable. Acci litor. Open col llector. CC mo programming	er selectable. uracy: +/-0.9 uracy: +/-0.9 lector. Outpur de: On. CV m control by el	Accuracy and 5% of rated Vo 5% of rated lo t On: On. Outpode: Off. May ectrical signa	I linearity: +/ out. ut. out Off: Off. M kimum Voltage I or dry contact	-0.5% of rated aximum Voltage: 30V, Maxim ct. Remote: 0-	ge: 30V, Maxi um Sink Curr ~0.6V or shoi	rent: 10mA. rt. Local: 2~3	OV or oper
4. lout resistor programming (*14) 5. Output voltage monitor 6. Output current monitor (*14) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal		0~100%, 0 0~5V or 0~ 0~5V or 0~ Power supp CV/CC Mon Enable/Disa Analogue pro	~5/10Kohm ~10V, user se ~10V, user se ly output mon itor. Open col ble analogue ogramming co	full scale, use electable. Acci electable. Acci litor. Open col elector. CC mo programming introl monitor s	er selectable. uracy: +/-0.9 uracy: +/-0.9 lector. Outpur de: On. CV m control by el ignal. Open co	Accuracy and 5% of rated Vo 5% of rated lo 5% of rated lo 10 on: On. Outplode: Off. Maxectrical signa ollector. Remo	I linearity: +/ out. ut. out Off: Off. M kimum Voltage I or dry contacte: On. Local: (-0.5% of rated aximum Voltage: 30V, Maxim tt. Remote: 0- Off. Maximum V	ge: 30V, Maxi um Sink Curr ~0.6V or show Voltage: 30V, I	ent: 10mA. rt. Local: 2~3 Maximum Sink	OV or oper
4. lout resistor programming (*14) 5. Output voltage monitor 6. Output current monitor (*14) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal 8. LOCAL/REMOTE Analogue control 1. LOCAL/REMOTE Analogue signal		0~100%, 0 0~5V or 0~ 0~5V or 0~ Power supp CV/CC Mon Enable/Disa Analogue pro	~5/10Kohm ~10V, user se ~10V, user se ly output mon itor. Open col ble analogue ogramming co	full scale, use electable. Acci electable. Acci litor. Open col elector. CC mo programming introl monitor s	er selectable. uracy: +/-0.9 uracy: +/-0.9 lector. Outpur de: On. CV m control by el ignal. Open co	Accuracy and 5% of rated Vo 5% of rated lo 5% of rated lo 10 on: On. Outplode: Off. Maxectrical signa ollector. Remo	I linearity: +/ out. ut. out Off: Off. M kimum Voltage I or dry contacte: On. Local: (-0.5% of rated aximum Voltage: 30V, Maxim ct. Remote: 0-	ge: 30V, Maxi um Sink Curr ~0.6V or show Voltage: 30V, I	ent: 10mA. rt. Local: 2~3 Maximum Sink	OV or oper
4. lout resistor programming (*14) 5. Output voltage monitor 6. Output current monitor (*14) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal 8. LOCAL/REMOTE Analogue control 1. LOCAL/REMOTE Analogue signal 5. ENABLE/DISABLE signal		0~100%, 0 0~5V or 0~ 0~5V or 0~ Power supp CV/CC Mon Enable/Disa Analogue pre	~5/10Kohm ~10V, user se ~10V, user se ly output mon itor. Open col ble analogue ogramming co ble PS output	full scale, use electable. According to the electable. According to the control of the elector. CC mo programming introl monitor s by electrical	er selectable. uracy: +/-0.9 uracy: +/-0.9 lector. Outpur de: On. CV m control by el ignal. Open co signal or dry	Accuracy and 5% of rated Vo 5% of rated Io 5% of ra	but. but Off: Off. M kimum Voltage l or dry contacte: On. Local: 6.6V or short, 2	-0.5% of rated aximum Voltage: 30V, Maxim tt. Remote: 0- Off. Maximum V	ge: 30V, Maxi um Sink Curr ~0.6V or show Voltage: 30V, In. User selec	rent: 10mA. rt. Local: 2~3 Maximum Sink table logic.	OV or oper
4. lout resistor programming (*14) 5. Output voltage monitor 6. Output current monitor (*14) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal 8. LOCAL/REMOTE Analogue control	 	0~100%, 0 0~5V or 0~ 0~5V or 0~ Power supp CV/CC Mon Enable/Disa Analogue pro Enable/Disa Enable/Disa	~5/10Kohm ~10V, user se ~10V, user se ly output mon itor. Open col ble analogue ogramming co ble PS output ble PS output	full scale, use electable. According to the control of the control	er selectable. uracy: +/-0.s uracy: +/-0.s lector. Outpur de: On. CV m control by el ignal. Open co signal or dry signal or dry	Accuracy and 5% of rated Vo 5% of rated Io ton: On. Outploode: Off. Maxectrical signa bllector. Remocontact. 0~0 contact. Remocontact.	I linearity: +/ but. but Off: Off. M kimum Voltage I or dry contacte: On. Local: .6V or short, 2 but: 0~0.6V of 0.6V	-0.5% of rated aximum Voltage: 30V, Maxim ct. Remote: 0- Off. Maximum \(2 \sim 30V \) or ope	ge: 30V, Maxi um Sink Curr ~0.6V or shoi Voltage: 30V, in. User selec : 2~30V or o	rent: 10mA. rt. Local: 2~3 Maximum Sink otable logic. open.	OV or oper
4. lout resistor programming (*14) 5. Output voltage monitor 6. Output current monitor (*14) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal 8. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals		0~100%, 0 0~5V or 0~ 0~5V or 0~ Power supp CV/CC Mon Enable/Disa Analogue prr Enable/Disa Two open di	~5/10Kohm ~10V, user se ~10V, user se ly output mon itor. Open col ble analogue ogramming co ble PS output ble PS output rain programm	full scale, use electable. Accelectable. Accelectable. Accelectable. Accelectable. Composer services and programming antrol monitor services by electrical anable signals.	er selectable. uracy: +/-0.s uracy: +/-0.s lector. Outpur de: On. CV m control by el ignal. Open co signal or dry signal or dry Maximum vo	Accuracy and 5% of rated Vo 5% of rated Io t On: On. Outplood: Off. May ectrical signa ollector. Remocontact. 0~0 contact. Remoltage 25V, M	I linearity: +/ put. but Off: Off. M kimum Voltage I or dry contacte: On. Local: .6V or short, 2 but 0 of 0 o	aximum Volta; e: 30V, Maxim ct. Remote: 0- Off. Maximum V 230V or ope or short. Local current 100mA	ge: 30V, Maxi um Sink Curr -0.6V or shoi Voltage: 30V, in. User selec : 2~30V or o	rent: 10mA. rt. Local: 2~3 Maximum Sink rtable logic. open. 27V zener)	OV or oper Current: 10
4. lout resistor programming (*14) 5. Output voltage monitor 6. Output current monitor (*14) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal 8. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control		0~100%, 0 0~5V or 0~ 0~5V or 0~ Power supp CV/CC Mon Enable/Disa Analogue pre Enable/Disa Enable/Disa Two open di Maximum Ic	~5/10Kohm ~10V, user se ~10V, user se ly output mon itor. Open col ble analogue ogramming co ble PS output train programm ow level input	full scale, use electable. Accelectable. Accelectable. Accelectable. Accelectable. Composer services and programming antrol monitor services by electrical anable signals.	er selectable. uracy: +/-0.s uracy: +/-0.s lector. Outpu de: On. CV m control by el ignal. Open co signal or dry signal or dry Maximum vo BV,Minimum	Accuracy and 5% of rated V6 5% of rated Io 10 On: On. Outplode: Off. May ectrical signa ollector. Remocontact. 0~0 contact. Remoltage 25V, Mhigh level inp	I linearity: +/ but. but Off: Off. M kimum Voltage I or dry contacte: On. Local: 6V or short, 2 but: 0~0.6V of aximum sink of ut voltage =	aximum Volta; aximum Volta; aximum Volta; aximum Volta; by Maximum Volta; Color Maximum Volta	ge: 30V, Maxi um Sink Curr -0.6V or shoi Voltage: 30V, in. User selec : 2~30V or o	rent: 10mA. rt. Local: 2~3 Maximum Sink otable logic. open.	OV or oper Current: 10
4. lout resistor programming (*14) 5. Output voltage monitor 6. Output current monitor (*14) 6. Output current monitor (*14) 6. Power supply OK #1 signal 7. Power supply OK #1 signal 8. LOCAL/REMOTE Analogue control 9. LOCAL/REMOTE Analogue signal 9. ENABLE/DISABLE signal 9. INTERLOCK (ILC) control 9. Programmed signals 9. TRIGGER IN / TRIGGER OUT signals		0~100%, 0 0~5V or 0~ 0~5V or 0~ Power supp CV/CC Mon Enable/Disa Analogue pre Enable/Disa Two open di Maximum lo trigger: tw=	~5/10Kohm ~10V, user se ~10V, user se ly output mon itor. Open col ble analogue ogramming co ble PS output train programm ow level input 10us minimu	full scale, use electable. According to the lectable according to the	er selectable. uracy: +/-0.9 uracy: +/-0.9 lector. Outpu de: On. CV m control by el ignal. Open cr signal or dry signal or dry Maximum vc 3V,Minimum Maximum, N	Accuracy and \$% of rated Vi \$% of rated Io 1 On: On. Out toole: Off. May ectrical signa contact. 0~0 contact. Rem Itage 25V, M high level inp fin delay bety	I linearity: +/ but. but Off: Off. M kimum Voltage I or dry contacte: On. Local: 6V or short, 2 but: 0~0.6V of aximum sink of ut voltage =	aximum Volta; aximum Volta; aximum Volta; aximum Volta; by Maximum Volta; Color Maximum Volta	ge: 30V, Maxi um Sink Curr -0.6V or shoi Voltage: 30V, in. User selec : 2~30V or o	rent: 10mA. rt. Local: 2~3 Maximum Sink rtable logic. ppen. 27V zener)	OV or oper Current: 10
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Specifications GENESYS+™ GH (1/1.5kW)

Protective Functions	V	10	20	30	40	60	80	100	150	300	600
1. Foldback protection						e from CV or P art mode, by P					
2. Over-voltage protection (OVP)		Output shut-	down. Reset	by AC input re	ecycle in auto	start mode, by	OUTPUT butt	on, by rear pa	nel or by com	munication.	
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		+/-1% of ra	ited output vi	oltage							
5. Output under voltage limit (UVL)		Prevents from	m adjusting '	Vout below lim	it. Does not a	apply in analog	ue programm	ing. Preset by	front panel or	communicati	on port.
6. Over temperature protection		Shuts down	the output. A	Auto recovery b	y autostart m	node.					
7. Output under voltage limit (UVL)		Prevents adi	ustment of V	out below limi	t.						
8. Output under voltage protection (UVP)		Prevents adj	ustment of V	out below limi	t. P.S output	turns Off durin panel or by co		je condition. F	Reset by AC in	put recycle in	autostart
Front Panel	_!	111000, 5) 1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	<i>5</i> , 55 5 . 50	ittori, by rour	pa.ioi oi oj oo					
1. Control functions		Communica Output ON/C Communica Analogue Co	wer Limit manual accumentations - 0 tion Function Partion Partion Function Partion Function F	anual adjust djust VP, UVL,UVP, I ns - Selection o nel Lock. ns - Selection o ons - Selection	of LAN,IEEE,F of Baud Rate, i Voltage/resi	CL, ENA, ILC RS-232,RS-488 Address, IP ar istive programr Current Monito	nd communica	ation language		ce.	
2. Display		Vout: 4 digit	s, accuracy:		l output volta	ge +/-1 count	-				
3. Front Panel Buttons Indications		_				ATION, PROTEC	CTION, CONFIG	SURATION, SY	STEM, SEQUE	ENCER.	
4. Front Panel Display Indications		Voltage, Cur	rent, Power,	CV, CC, CP, E	xternal Voltaç	ge, External Cu nunication, Trig	rrent, Address	, LFP, Autosta			
Environmental Conditions				,, .,,	,		3-,,				
Operating temperature		0~50°C, 10	00% load.								
Storage temperature		-30~85°C									
3. Operating humidity	%	20~90% RI	H (no conder	nsation)							
4. Storage humidity	%	10~95% RI		,							
5. Altitude	70				rent derating	2%/100m or Ta	derating 1°C/	100m ahova S	2000m Non o	nerating: 1000	∩ft /12∩∩∩r
Mechanical		Operating. 1		iii), output cuii	cili derating	2 /0/ 100111 01 10	ucialing i o/	TOOTH ADOVE 2	.000111. 11011 0	perating. 4000	011 (120001
1. Cooling		Earned air o	ooling by int	ornal fano. Air i	flow direction	n: from Front pa	anal to nawar	cupply roor			
<u>_</u>				ciliai ialis. Ali i	now unection	i. iioiii i ioiii pa	aliel to howel	supply Ital			
Weight Dimensions (WxHxD)	kg mm	Less than 3.		(Without busb	are and buch	ara aquar)					
3. Differisions (WXDXD)	1111111					ais cover), sbars cover) (Ri	efer to Outline	drawing).			
4. Vibration						n Annex C - 2.		3,			
5. Shock		Less than 20	G. half sine.	11mS. Unit is	unpacked.						
Safety/EMC											
1. Applicable standards: Safety GH1/1.5kW		UI 61010-1	CSA22 2 No	o. 61010-1, IE(C61010-1 F	N61010-1					
1.1 Interface classification GH1/1.5kW		Vout≤50V N	lodels: Outpi	ut, J1, J2, J3, c	14, J5, J6, J7	', J8 (sense) & ardous, J1, J2,					n Hazardous
1.2 Withstand voltage GH1/1.5kW		Vout≤50V N Input - Grou 60V≤Vout≤ Output & J8 Output & J8 100V <vout Output & J8</vout 	lodels: Input nd: 2835Vdc 100V Models (sense) - J1 (sense) - Gr ≤600V Mode (sense) - J1	- Output & J8 c 1min. s: Input – Outpu , J2, J3, J4, J5 round: 1500Vd els: Input – Out , J2, J3, J4, J5	(sense), J1, ut & J8 (sens 5, J6, J7 & J9 c 1min, Inpu tput & J8 (se 5, J6, J7 & J9	J2, J3, J4, J5, se), J1, J2, J3, 9 (communicat t - Ground: 283 nse), J1, J2, J3 9 (communicat t - Ground: 283	J6, J7 & J9 (J4, J5, J6, J7 ion options): 35Vdc 1min. 3, J4, J5, J6, ion options):	communication & J9 (communication & Section 4	on options): 4 unication option	242Vdc 1min, ons): 4242Vdc	: 1min,
1.3 Insulation resistance		100Mohm a	t 25°C, 70%	RH. Output to (Ground 500V	dc					
2. Conducted emission		IEC/EN6120	4-3 Industria	al environment.	Annex H tab	le H.1 , FCC P	art 15-A, VCC	I-A .			
O. Dadistad assissing			4-3 Industria								
Radiated emission				11 6114110111116111.	Allilex II lau	iie n.o aiiu n4	, ruu rail io	-A, VUUI-A			

Unless otherwise noted, specifications are warranted over the ambient temperature range of 0°C 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 3m.
- *5: Not including EMI filter inrush current, less than 0.2mS.

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

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

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

- *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. B.W 5Hz—1MHz.

 *14: The Constant Current programming, readback and monitoring accuracy do not include the warm-up and Load regulation thermal drift.
- *15: Measured at the sensing point.
- *16: Max. ambient temperature for using IEEE is $40^{\circ}\text{C}.$
- *17: Ta=25°C, rated output power.

Specifications GENESYS+™ G (1kW)

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.
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)		85~265Va	c, continuous	s, 47~63Hz, S	Single Phase						
2. Maximum Input current at 100% load (100/200)	Α	12.5/6.5									
3. Power Factor (Typ)		0.99 @ 100	OVac 0.98 @	200Vac, rate	d output pow	er.					
4. Efficiency at 100Vac/200Vac, rated output (*17)	%	86/88	87/89	87/89	87/89	87/89	87/89	88/90	88/90	88/90	88/90
5. Inrush current (*5)	A	Less than 50	<u> </u>	0.700	0.700	01,00	0.700	00,00	00,00	00,00	100,00
Constant Voltage Mode	V	10	20	30	40	60	80	100	150	300	600
1. Max. Line regulation (*6)		_			40	00	00	100	100	300	1000
• • • •			ted output vo	-							
2. Max. Load regulation (*7)				Itage +2mV				l	l		
Ripple and noise (p-p, 20MHz) (*8)	mV	50	50	50	60	60	75	75	75	120	500
. Ripple r.m.s. 5Hz~1MHz (*8)	mV	6	6	6	7	7	10	12	9	20	100
i. Temperature coefficient	PPM/°C			ıtput voltage, f			•				
6. Temperature stability		0.01% of rat	ted Vout over	r 8hrs interval	following 30	minutes warm	n-up. Constant	line, load & to	emp.		
7. Warm-up drift		Less than 0	.01% of rated	d output voltag	e+2mV over	30 minutes fo	ollowing power	on.			
Remote sense compensation/wire (*10)	٧	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
0. Down-prog.response time: Full load (*12)	mS	35	30	60	60	60	60	80	120	220	220
No load (*12)	mS	500	700	1000	1200	1500	1700	2600	2900	4600	4600
	mS						for a load chan				4000
1. Transient response time	1119						ior a load chair idels up to and				100\/
2. Start up delay	Sec	Less than 6		JO 70, EUUAI SCI	ioo. Loss tilal	o, 101 111C	raoio up io allu	moraulity 10	O	mouoro abuve	1007.
	mS			ut nower							
3. Hold-up time	_		al, rated outp		40	60	00	100	150	200	600
Constant Current Mode	V	10	20	30	40	60	80	100	150	300	600
. Max. Line regulation (*6)				ırrent. +2mA							
. Max. Load regulation (*9)			ted output cu	ırrent. +5mA	,				,		
B. Ripple r.m.s. @ rated voltage. B.W 5Hz~1MHz. (*13)	mA	≤420	≤160	≤100	≤60	≤50	≤30	≤20	≤10	≤8	≤5
. Temperature coefficient	PPM/°C	10V~100V 150V~600	,				0 minutes war 1 minutes warm				
5. Temperature stability		0.01% of raf	ted lout over	8hrs. interval	following 30	minutes warm	-up. Constant	line, load & te	emperature.		
S. Warm-up drift					-		ver 30 minutes				
. Ham up am) minutes follo				
Analogue Programming and Monitoring (Isolate	d from th										
Vout voltage programming			15V or 0	10V usar sala	ctable Accur	acv and linea	rity: +/-0.15%	of rated Vout			
2. lout voltage programming (*14)						•	rity: +/-0.13%		•		
							-		11/		
3. Vout resistor programming							d linearity: +/-				
4. lout resistor programming (*14)							d linearity: +/-	U.5% of rated	IOUT.		
5. Output voltage monitor				selectable. Acc	•						
6. Output current monitor (*14)		0~5V or 0-	~10V, user s	selectable. Acc	curacy: +/-0.	5% of rated lo	ut.				
Signals and Controls (Isolated from the Output)											
1. Power supply OK #1 signal		Power supp	ly output mo	nitor. Open co	Hector. Outpu	ıt On: On. Out	put Off: Off. Ma	aximum Volta	ge: 30V, Maxi	mum Sink Cur	rent: 10m
2. CV/CC signal		CV/CC Mon	itor. Open co	ollector. CC m	ode: On. CV r	node: Off. Ma	ximum Voltage	: 30V, Maxim	um Sink Curr	ent: 10mA.	
3. LOCAL/REMOTE Analogue control		Enable/Disa	ble analogue	programming	control by e	lectrical signa	l or dry contac	t. Remote: 0-	~0.6V or shor	t. Local: 2~30	OV or oper
1. LOCAL/REMOTE Analogue signal					-		ote: On. Local: C				
5. ENABLE/DISABLE signal			0 0		· ').6V or short, 2		,		
5. INTERLOCK (ILC) control							ote: 0~0.6V o				
7. Programmed signals							aximum sink c				
-						,	aximum sink c out voltage = 2		,	,	oitivo ode
3. TRIGGER IN / TRIGGER OUT signals							out voitage = 2 ween 2 pulses		ın nığır revel I	iiput = 5V pos	silive eage
DAISV IN/SO control signal		- 00		~0.6V/2~30V			7 hn1929	iiio.			
D. DAISY_IN/SO control signal						Jl.					
0. DAISY_OUT/PS_OK #2 signal		_4~5V=UK.	, uv (buuonn	n impedance)	=rail						
Functions and Features											
. Parallel operation							nstruction man	ual.			
2. Series operation		Possible. Tv	νο identical ι	units. Refer to	instruction m	anual.					
3. Daisy chain		Power supp	lies can be c	onnected in D	aisy chain to	synchronize tl	heir turn-on an	d turn-off.			
I. Constant power control		Limits the o	utput power t	to a programm	ned value. Pro	gramming via	the communic	cation ports o	r the front par	nel.	
. Output resistance control		Emulates se	ries resistan	ce. Resistance	range: 1~1	000 m Ω . Prod	gramming via t	he communic	ation ports or	the front pane	l.
6. Slew rate control					-		g range: 0.000				
. 2.2 1440 00.1140.				mmunication p			, .ago. 0.000	. 555.554/1	5. 7 91110.		
. Arbitrary waveforms							ation by comn	nand via the c	ommunicatio	n ports or by th	ne front na
•		10	20	30	40	60	80	100	150	300	
rooramming and Reannack (USR TAN RS-237)	V							.50			600
	V									000	600
RS-485, Optional IEEE (*16) Interface)		0.05% of rat	ted output vo	Iltane						000	600
RS-485, Optional IEEE (*16) Interface) . Vout programming accuracy (*15)			ted output vo	-	of rated outcom	t ourront				000	600
IS-485, Optional IEEE (*16) Interface) . Vout programming accuracy (*15) . lout programming accuracy (*14)		0.1% of actu	ual output cu	rrent +0.2% (of rated outpu	t current					600
RS-485, Optional IEEE (*16) Interface) . Vout programming accuracy (*15) 2. lout programming accuracy (*14) 3. Vout programming resolution		0.1% of actu 0.002% of ra	ual output cu ated output v	rrent +0.2% o voltage	of rated outpu	t current					600
IS-485, Optional IEEE (*16) Interface) . Vout programming accuracy (*15) . lout programming accuracy (*14) . Vout programming resolution . lout programming resolution		0.1% of actu 0.002% of ra 0.002% of ra	ual output cu ated output v ated output c	rrent +0.2% ovoltage current	of rated outpu	t current				333	600
IS-485, Optional IEEE (*16) Interface) . Vout programming accuracy (*15) . lout programming accuracy (*14) . Vout programming resolution . lout programming resolution		0.1% of actu 0.002% of ra 0.002% of ra	ual output cu ated output v	rrent +0.2% ovoltage current	of rated outpu	t current				333	600
RS-485, Optional IEEE (*16) Interface) . Vout programming accuracy (*15) . lout programming accuracy (*14) . Vout programming resolution . lout programming resolution . Vout readback accuracy		0.1% of actu 0.002% of ra 0.002% of ra 0.05% of ra	ual output cu ated output v ated output c	rrent +0.2% o voltage current oltage	of rated outpu	t current			0.25% of i	rated output cu	
RS-485, Optional IEEE (*16) Interface) 1. Vout programming accuracy (*15) 2. lout programming accuracy (*14) 3. Vout programming resolution 4. lout programming resolution 5. Vout readback accuracy 6. lout readback accuracy (*14)		0.1% of actu 0.002% of ra 0.002% of ra 0.05% of ra	ual output cu ated output v ated output c ated output v	rrent +0.2% o voltage current oltage	of rated outpu	t current	0.002%	0.011%	0.25% of 0.007%		
Programming and Readback (USB, LAN, RS-232/RS-485, Optional IEEE (*16) Interface) 1. Vout programming accuracy (*15) 2. lout programming accuracy (*14) 3. Vout programming resolution 4. lout programming resolution 5. Vout readback accuracy 6. lout readback accuracy (*14) 7. Vout readback resolution (of rated output voltage) 8. lout readback resolution (of rated output current)		0.1% of actu 0.002% of ra 0.002% of ra 0.05% of rate	ual output cu ated output v ated output c ated output vo ed output curi	rrent +0.2% o voltage current oltage rent			0.002%	0.011%		rated output cu	rrent

Specifications GENESYS+ $^{\text{\tiny TM}}$ G (1.7kW)

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
1. Rated output voltage(*1)	٧	10	20	30	40	60	80	100	150	300	600
2. Rated output current (*2)	А	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
nput Characteristics	V	10	20	30	40	60	80	100	150	300	600
. Input voltage/freq. (*3)		85~265Va	c, continuous	s, 47~63Hz, S	Single Phase						
2. Maximum Input current at 100% load (100/200)	Α	20/10									
3. Power Factor (Typ)		0.99 @ 100	0Vac 0.98	@ 200Vac, ra	ted output po	wer.					
4. Efficiency at 100Vac/200Vac, rated output (*19)	%	86/88	87/89	87/89	87/89	87/89	87/89	88/90	88/90	88/90	88/90
	A	Less than 50	<u> </u>	01/03	01/03	01/03	01/03	00/30	00/30	00/30	00/30
5. Inrush current (*5)			7	00	40	00	00	400	450	000	000
Constant Voltage Mode	V	10	20	30	40	60	80	100	150	300	600
I. Max. Line regulation (*6)			ted output vo	-							
2. Max. Load regulation (*7)		0.01% of rat	ted output vo	Itage +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 f	from rated ou	utput voltage, f	ollowina 30 r	ninutes warm	·uD.	'			
5. Temperature stability				r 8hrs interval	-		•	line load & t	emn		
7. Warm-up drift				d output voltag	-				orrip.		
·			1			1	1		F	T =	1.5
8. Remote sense compensation/wire (*10)	٧	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	Time for out	tout voltage t	to recover with	in 0.5% of its	rated output	or a load cha	nge 10~90%	of rated output	current.	
									OV. 2mS, for m		100V.
12. Start up delay	Sec	Less than 6		,		2, .0	10 4111	g . u		20070	
13. Hold-up time	mS		al, rated outp	nut nower							
· · · · · · · · · · · · · · · · · · ·			· · · · · ·	_·	40	00	00	400	450	000	000
Constant Current Mode	V	10	20	30	40	60	80	100	150	300	600
1. Max. Line regulation (*6)				ırrent. +2mA							
2. Max. Load regulation (*9)		0.02% of rat	ted output cu	ırrent. +5mA							
3. Ripple r.m.s. @ rated voltage. B.W 5Hz~1MHz. (*13)	mA	≤420	≤160	≤100	≤60	≤50	≤30	≤20	≤10	≤8	≤5
4. Temperature coefficient	PPM/°C	10V~100V	100PPM	/°C from rated	output curre	nt. followina 3	0 minutes wa	rm-up.			
	, ,			C from rated o							
5. Temperature stability				8hrs. interval				•	emperature		
6. Warm-up drift				than +/-0.25					•		
o. wann-up unit				+/-0.15% of							
Analogue Programming and Monitoring (Isolate	d from th		V. Lood than	17 0.1070 01	ratoa oatpat t	Tallolle Ovol O	7 111110100 1011	oming pomor o	***		
			- F\/ - O	40)/	- I - I - I - A		1	/ () 1)/- 1			
1. Vout voltage programming				10V, user sele	ctable. Accur	acy and lineal	ity: +/-0.159	6 of rated vout			
2 Inut voltage programming (*14)											
L. rout voitage programming (14)				10V, user sele			-				
				10V, user sele n full scale, us			-		I Vout.		
3. Vout resistor programming		0~100%, 0	~5/10Kohn		er selectable	Accuracy and	l linearity: +/	-0.5% of rated			
2. lout voltage programming (*14) 3. Vout resistor programming 4. lout resistor programming (*14) 5. Output voltage monitor		0~100%, 0 0~100%, 0)∼5/10Kohn)∼5/10Kohn	n full scale, us n full scale, us	er selectable er selectable	Accuracy and	I linearity: +/ I linearity: +/	-0.5% of rated			
3. Vout resistor programming 4. lout resistor programming (*14) 5. Output voltage monitor		0~100%, 0 0~100%, 0 0~5V or 0~)~5/10Kohn)~5/10Kohn ~10V, user s	n full scale, us n full scale, us selectable. Acc	er selectable er selectable curacy: +/-0	Accuracy and Accuracy and 5% of rated V	I linearity: +/ I linearity: +/ out.	-0.5% of rated			
3. Vout resistor programming 4. lout resistor programming (*14) 5. Output voltage monitor 6. Output current monitor (*14)		0~100%, 0 0~100%, 0 0~5V or 0~)~5/10Kohn)~5/10Kohn ~10V, user s	n full scale, us n full scale, us	er selectable er selectable curacy: +/-0	Accuracy and Accuracy and 5% of rated V	I linearity: +/ I linearity: +/ out.	-0.5% of rated			
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 0~100%, 0 0~5V or 0~ 0~5V or 0~)~5/10Kohn)~5/10Kohn ~10V, user s ~10V, user s	n full scale, us n full scale, us selectable. Acc selectable. Acc	er selectable er selectable curacy: +/-0. curacy: +/-0.	Accuracy and Accuracy and 5% of rated V 5% of rated Ic	I linearity: +/ I linearity: +/ out. ut.	-0.5% of rated -0.5% of rated	I lout.	Cial Out	
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) 1. Power supply OK #1 signal		0~100%, 0 0~100%, 0 0~5V or 0~ 0~5V or 0~	0~5/10Kohm 0~5/10Kohm ~10V, user s ~10V, user s ly output mo	n full scale, us n full scale, us selectable. Acc selectable. Acc nitor. Open co	er selectable er selectable curacy: +/-0. curacy: +/-0.	Accuracy and Accuracy and 5% of rated V 5% of rated lo	I linearity: +/ I linearity: +/ out. ut. out Off: Off. M	-0.5% of rated -0.5% of rated aximum Volta	l lout. ge: 30V, Maxin		rrent: 10m
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) 1. Power supply OK #1 signal 2. CV/CC signal		0~100%, 0 0~100%, 0 0~5V or 0~ 0~5V or 0~ Power supp CV/CC Mon	0~5/10Kohm 1~5/10Kohm ~10V, user s ~10V, user s ly output mo itor. Open co	n full scale, us n full scale, us selectable. Acc selectable. Acc nitor. Open co ollector. CC m	er selectable er selectable curacy: +/-0. curacy: +/-0. dllector. Outpu	Accuracy and Accuracy and Accuracy and South Sou	If linearity: +/ If linearity: +/ Out. Out. Out Off: Off. M kimum Voltag	-0.5% of rated -0.5% of rated aximum Voltage: 30V, Maxim	l lout. ge: 30V, Maxin num Sink Curre	nt: 10mA.	
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) 1. Power supply OK #1 signal 2. CV/CC signal		0~100%, 0 0~100%, 0 0~5V or 0~ 0~5V or 0~ Power supp CV/CC Mon	0~5/10Kohm 1~5/10Kohm ~10V, user s ~10V, user s ly output mo itor. Open co	n full scale, us n full scale, us selectable. Acc selectable. Acc nitor. Open co ollector. CC m	er selectable er selectable curacy: +/-0. curacy: +/-0. dllector. Outpu	Accuracy and Accuracy and Accuracy and South Sou	If linearity: +/ If linearity: +/ Out. Out. Out Off: Off. M kimum Voltag	-0.5% of rated -0.5% of rated aximum Voltage: 30V, Maxim	l lout. ge: 30V, Maxin	nt: 10mA.	
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) 1. Power supply OK #1 signal		0~100%, 0 0~100%, 0 0~5V or 0~ 0~5V or 0~ Power supp CV/CC Mon Enable/Disa	2~5/10Kohm 2~5/10Kohm ~10V, user s ~10V, user s ly output mo itor. Open co ble analogue	n full scale, us n full scale, us selectable. Acc selectable. Acc nitor. Open co ollector. CC m e programming	er selectable er selectable curacy: +/-0. curacy: +/-0. illector. Outpu ode: On. CV r g control by e	Accuracy and Accuracy and 5% of rated V 5% of rated Ic at On: On. Out node: Off. Ma lectrical signa	I linearity: +/ I linearity: +/ out. out Off: Off. M kimum Voltag I or dry conta	-0.5% of rated -0.5% of rated aximum Volta e: 30V, Maxim ct. Remote: 0-	l lout. ge: 30V, Maxin num Sink Curre	nt: 10mA. . Local: 2~3	OV or oper
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Specifications GENESYS+™ G (1/1.7kW)

Protective Functions	V	10	20	30	40	60	80	100	150	300	600
1. Foldback protection				oower supply o							
2. Over-voltage protection (OVP)		Output shut-	-down. Reset	by AC input re	cycle in autos	tart mode, by	OUTPUT butte	on, by rear pa	inel or by com	munication.	
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		+/-1% of ra	ated output vo	ltage							
5. Output under voltage limit (UVL)		Prevents fro	m adjusting V	out below lim	it. Does not a	oply in analog	ue programmi	ng. Preset by	front panel or	communicati	on port.
6. Over temperature protection		Shuts down	the output. A	uto recovery b	y autostart mo	de.					
7. Output under voltage limit (UVL)		Prevents ad	justment of V	out below limit	t.						
8. Output under voltage protection (UVP)				out below limi by OUTPUT bu				e condition. F	Reset by AC in	put recycle in	autostart
Front Panel				-							
1. Control functions		Vout/lout/Po OVP/UVL/U' Protection F Communica Output ON/O Communica Analogue Co	ation Function OFF. Front Paration Stion Function Ontrol Function	nual adjust ljust /P, UVL,UVP, I s - Selection o	of LAN,IEEE,RS of Baud Rate, A Voltage/resis	S-232,RS-485 Address, IP ar tive programr	nd communica ming, 5V/10V,	tion language).	ce.	
2. Display		Vout: 4 digi	ts, accuracy:	0.05% of rated 0.2% of rated o	output voltag	e +/-1 count					
3. Front Panel Buttons Indications		OUTPUT ON	I, ALARM, PR	EVIEW, FINE, (COMMUNICA	TION, PROTEC	CTION, CONFIG	URATION, SY	STEM, SEQUE	ENCER.	
4. Front Panel Display Indications				CV, CC, CP, E)), RS/USB/LAN					art, Safetstart,	Foldback V/I,	
Environmental Conditions	,										
Operating temperature		0~50°C, 10	00% load.								
2. Storage temperature		-30~85°C									
3. Operating humidity	%	20~90% R	H (no conden	sation).							
4. Storage humidity	%	10~95% R	H (no conden	sation).							
5. Altitude		Operating: 1	0000ft (3000	m), output curr	ent derating 2	%/100m or Ta	derating 1°C/	100m above 2	2000m. Non o	perating: 4000	Oft (12000m).
Mechanical											
1. Cooling		Forced air c	ooling by inte	ernal fans. Air f	low direction:	from Front pa	anel to power:	supply rear			
2. Weight	kg	Less than 5	kg.								
3. Dimensions (WxHxD)	mm			.5 (Without bu 3.2 (Including I			(Refer to Outl	ine drawing).			
4. Vibration		MIL-810G,	method 514.6	6, Procedure I,	test condition	Annex C - 2.	1.3.1				
5. Shock		Less than 2	OG, half sine,	11mS. Unit is	unpacked.						
Safety/EMC		•									
1. Applicable standards: Safety G1kW/G1.7kW		UL61010-1	, CSA22.2 No	.61010-1, IEC	61010-1, EN	61010-1					
1.1 Interface classification G1kW/1.7kW				ıt, J1, J2, J3, J Dutput & J8 (se							n Hazardous.
1.2 Withstand voltage G1kW/1.7kW		Input - Grou 60V≤Vout≤ Output & J8 Output & J8 100V <vout &="" j8="" j8<="" output="" td=""><td>ind: 2835Vdc 100V Models 3 (sense) - J1 8 (sense) - Gri t≤600V Mode 8 (sense) - J1 8 (sense) - Gri</td><td>: Input — Outpu , J2, J3, J4, J5 ound: 1500Vd els: Input — Out , J2, J3, J4, J5 ound: 2500Vd</td><td>ut & J8 (sense 5, J6, J7 & J9 c 1min, Input put & J8 (sen 5, J6, J7 & J9 c 1min, Input</td><td>c), J1, J2, J3, (communicat - Ground: 283 se), J1, J2, J3 (communicat - Ground: 283</td><td>J4, J5, J6, J7 tion options): 8 35Vdc 1min. 3, J4, J5, J6, S tion options):</td><td>& J9 (comm 350Vdc 1min J7 and J9 (co</td><td>unication option</td><td>ons): 4242Vdd</td><td>c 1min,</td></vout>	ind: 2835Vdc 100V Models 3 (sense) - J1 8 (sense) - Gri t≤600V Mode 8 (sense) - J1 8 (sense) - Gri	: Input — Outpu , J2, J3, J4, J5 ound: 1500Vd els: Input — Out , J2, J3, J4, J5 ound: 2500Vd	ut & J8 (sense 5, J6, J7 & J9 c 1min, Input put & J8 (sen 5, J6, J7 & J9 c 1min, Input	c), J1, J2, J3, (communicat - Ground: 283 se), J1, J2, J3 (communicat - Ground: 283	J4, J5, J6, J7 tion options): 8 35Vdc 1min. 3, J4, J5, J6, S tion options):	& J9 (comm 350Vdc 1min J7 and J9 (co	unication option	ons): 4242Vdd	c 1min,
1.3 Insulation resistance		100Mohm a	at 25°C, 70%F	RH. Output to 0	Ground 500Vd	С					
2. Conducted emission		IEC/EN6120	04-3 Industria	l environment,	Annex H table	H.1 , FCC P	art 15-A, VCC	I-A .			
3. Radiated emission		IEC/EN6120	04-3 Industria	l environment,	Annex H table	H.3 and H4	, FCC Part 15-	-A, VCCI-A			
4. EMC compliance EMC(*4)		According to	o IEC/EN6120	04-3 Industrial	environment						

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

- *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 0.2mS.

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

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

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

- *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. B.W 5Hz—1MHz.

 *14: The Constant Current programming, readback and monitoring accuracy do not include the warm-up and Load regulation thermal drift.
- *15: Measured at the sensing point.
- *16: Maximum ambient temperature for IEEE option is 40° C.
- *17: Ta=25°C, rated output power.

Specifications GENESYS+ $^{\text{\tiny TM}}$ G (2.7kW)

Output Rating	G		20-135	30-90	40-68	60-45	80-34	100-27	150-18	300-9	600-4.
1. Rated output voltage(*1)	V		20	30	40	60	80	100	150	300	600
2. Rated output current (*2)	A		135	90	68	45	34	27	18	9	4.5
3. Rated output power	W	2650 2	2700	2700	2720	2700	2720	2700	2700	2700	2700
Input Characteristics	V		20	30	40	60	80	100	150	300	600
Input voltage/freq. 3 phase, 3 wire + Ground (*4) Maximum Input current at 100% load		3-Phase, 200\ 3-Phase, 400\ 3-Phase, 480\ 1-Phase, 200\ 3-Phase, 200\	V models: V models: V models: V models:	342~460Vac 342~528Vac 170~265Vac 10A @ 200V	, 47~63Hz (, 47~63Hz (, 47~63Hz (ac 3-Phase	Covers 380/40 Covers 380/40 Covers 200/20	00/415Vac) 00/415/440/4 08/230/240Va	nc)	ase, 480V mo	dels: 5.5A @	380Vac
3. Power Factor (Typ)		1-Phase, 200\ For 3-Phase: 0				ver. For 1-Pha	se: 0.99 @ 2	200Vac. rated	output power.		
4. Efficiency (Typ) (*5) (*22)	%		89	89.5	90	90	90.5	90.5	90.5	90.5	90.5
5. Inrush current (*6)	A	Less than 50A		00.0	00	00	00.0	00.0	00.0	00.0	00.0
Constant Voltage Mode	V		20	30	40	60	80	100	150	300	600
		0.01% of rated			40	00	00	100	130	300	000
1. Max. Line regulation (*7)				-							
2. Max. Load regulation (*8)	mV	0.01% of rated	a output vo 75		75	80	80	100	120	200	480
3. Ripple and noise (p-p, 20MHz) (*9)				75					120		
4. Ripple r.m.s. 5Hz~1MHz (*9)	mV		10	10	12	15	15	15	20	60	100
5. Temperature coefficient	PPM/°C	50PPM/°C froi									
6. Temperature stability		0.01% of rated							emp.		
7. Warm-up drift		Less than 0.05	5% of rated	l output voltaç	e+2mV over	30 minutes fo	llowing powe	er on.			
8. Remote sense compensation/wire (*10)	V		2	5	5	5	5	5	5	5	5
9. Up-prog. Response time (*11)	mS	30 3	30	30	30	50	50	50	50	50	100
10. Down-prog.response time: Full load (*11)	mS	50 5	50	80	80	80	100	100	100	100	200
No load (*12)	mS	450	600	800	900	1100	1300	2100	2000	3200	3100
11. Transient response time	mS	Time for outpu Output set-poi	int: 10~10								100V.
12. Start up delay	Sec	Less than 6 Se				Ţ				T T	
Constant Current Mode	V	10 2	20	30	40	60	80	100	150	300	600
1. Max. Line regulation (*7)		0.05% of rated	d output cu	rrent.							
2. Max. Load regulation (*13)		0.08% of rated	d output cu	irrent.							
3. Ripple r.m.s. @ rated voltage. 3-Phase (*14)	mA	≤800 ≤	≤450	≤300	≤150	≤100	≤70	≤45	≤30	≤12	≤5
1. Ripple r.m.s. @ rated voltage. 1-Phase (*14)	mA	≤1200 ±	≤600	≤300	≤300	≤200	≤100	≤60	≤40	≤12	≤8
5. Temperature coefficient	PPM/°C	10V~100V: 10	00PPM/°C	, 150V~600V	/: 70PPM/°C	from rated out	put current, fo	ollowing 30 m	inutes warm-u	JD.	
5. Temperature stability		0.01% of rated									
7. Warm-up drift		10V~100V: Le								s following pov	ver on
Analogue Programming and Monitoring (Isolate	d from th			,,				.,,			
Nout voltage programming		0~100%, 0~	.5\/ or 0:	10V ugar gala	otable Accur	acy and linear	ity: 1 / 0 159	/ of rated Vout			
2. lout voltage programming (*15)		0~100%, 0~					-				
					clabic. Accui	acy and inital	ity. ⊤/-0.4/0	oi iaicu ioui.			
					or coloctable	A courceu con	Llinoaritus Ll	O EO/ of rotos	1 \/out		
		-						-0.5% of rated			
3. Vout resistor programming 4. lout resistor programming (*15)		0~100%, 0~	-5/10Kohm	n full scale, us	er selectable	Accuracy and					
4. lout resistor programming (*15) 5. Output voltage monitor		0~100%, 0~ 0~5V or 0~1	-5/10Kohm 10V, user s	n full scale, us electable. Ac	er selectable curacy: +/-0.	Accuracy and 5%.					
4. lout resistor programming (*15) 5. Output voltage monitor 6. Output current monitor (*15)		0~100%, 0~	-5/10Kohm 10V, user s	n full scale, us electable. Ac	er selectable curacy: +/-0.	Accuracy and 5%.					
4. lout resistor programming (*15) 5. Output voltage monitor 6. Output current monitor (*15) Signals and Controls (Isolated from the Output)		0~100%, 0~ 0~5V or 0~1 0~5V or 0~1	-5/10Kohm 10V, user s 10V, user s	n full scale, us electable. Acc electable. Acc	er selectable curacy: +/-0. curacy: +/-0.	Accuracy and 5%.	l linearity: +/	-0.5% of rated	l lout.		
4. lout resistor programming (*15) 5. Output voltage monitor 6. Output current monitor (*15)		0~100%, 0~ 0~5V or 0~1 0~5V or 0~1	-5/10Kohm 10V, user s 10V, user s output mo	n full scale, us electable. Acc electable. Acc nitor. Open co	er selectable curacy: +/-0. curacy: +/-0.	Accuracy and 5%. 5%. 5%. t On: On. Outp	I linearity: +/	-0.5% of ratec	l lout. ge: 30V, Maxi		rrent: 10mA
4. lout resistor programming (*15) 5. Output voltage monitor 6. Output current monitor (*15) Signals and Controls (Isolated from the Output)		0~100%, 0~ 0~5V or 0~1 0~5V or 0~1	-5/10Kohm 10V, user s 10V, user s output mo	n full scale, us electable. Acc electable. Acc nitor. Open co	er selectable curacy: +/-0. curacy: +/-0.	Accuracy and 5%. 5%. 5%. t On: On. Outp	I linearity: +/	-0.5% of ratec	l lout. ge: 30V, Maxi		rrent: 10mA
4. lout resistor programming (*15) 5. Output voltage monitor 6. Output current monitor (*15) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal		0~100%, 0~ 0~5V or 0~1 0~5V or 0~1	-5/10Kohm 10V, user s 10V, user s output moo or. Open co	n full scale, us electable. Acc electable. Acc nitor. Open co ollector. CC m	er selectable curacy: +/-0. curacy: +/-0. ollector. Outpu ode: On. CV r	Accuracy and 5%. 5%. 5%. on. Outpnode: Off. Maxwhole	l linearity: +/	-0.5% of rated laximum Volta e: 30V, Maxim	l lout. ge: 30V, Maxi num Sink Curr	ent: 10mA.	
4. lout resistor programming (*15) 5. Output voltage monitor 6. Output current monitor (*15) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal 8. LOCAL/REMOTE Analogue control		0~100%, 0~ 0~5V or 0~1 0~5V or 0~1 Power supply CV/CC Monito	-5/10Kohm 10V, user s 10V, user s output moo or. Open co e analogue	n full scale, us electable. Acc electable. Acc nitor. Open co elector. CC m	curacy: +/-0. curacy: +/-0. curacy: -/-0. cu	Accuracy and 5%. 5%. 5%. on Output On: On. Output Onde: Off. Max lectrical signa	out Off: Off. Miximum Voltag	laximum Volta e: 30V, Maxim ct. Remote: 0-	ge: 30V, Maxi num Sink Curr ~0.6V or shor	ent: 10mA. rt. Local: 2~3	OV or open
4. lout resistor programming (*15) 5. Output voltage monitor 6. Output current monitor (*15) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal		0~100%, 0~ 0~5V or 0~1 0~5V or 0~1 Power supply CV/CC Monito Enable/Disable	-5/10Kohm 10V, user s 10V, user s output moor. Open core analogue ramming cor	n full scale, us electable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable control of the programming control monitor	er selectable curacy: +/-0. curacy: +/-0. ellector. Outprode: On. CV r g control by e signal. Open o	Accuracy and 5%. 5%. 5%. on: On. Outprode: Off. Max lectrical signa ollector. Remo	out Off: Off. M kimum Voltag I or dry conta te: On. Local:	laximum Volta e: 30V, Maxim ct. Remote: 0- Off. Maximum	ge: 30V, Maxi num Sink Curr ~0.6V or shor Voltage: 30V, I	ent: 10mA. rt. Local: 2~3 Maximum Sink	OV or open
4. lout resistor programming (*15) 5. Output voltage monitor 6. Output current monitor (*15) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue signal		0~100%, 0~ 0~5V or 0~1 0~5V or 0~1 Power supply CV/CC Monito Enable/Disable Analogue progr	-5/10Kohm 10V, user s 10V, user s output moo or. Open co e analogue ramming co e PS output	n full scale, us electable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable accelectab	er selectable curacy: +/-0. curacy: +/-0. ellector. Outpu ode: On. CV r g control by e signal. Open o signal or dry	Accuracy and 5%. 5%. 5%. on. Outprode: Off. Max lectrical signal collector. Remo contact. 0~0	but Off: Off. Mr. Simum Voltag or dry conta te: On. Local: .6V or short,	laximum Volta e: 30V, Maxim ct. Remote: 0- Off. Maximum 2~30V or ope	ge: 30V, Maxi num Sink Curr ~0.6V or shor Voltage: 30V, I	ent: 10mA. rt. Local: 2~3 Maximum Sink table logic.	OV or open
4. lout resistor programming (*15) 5. Output voltage monitor 6. Output current monitor (*15) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control		0—100%, 0~ 0—5V or 0—1 0—5V or 0—1 Power supply CV/CC Monito Enable/Disable Analogue progr	output more or. Open core analogue e PS output e PS ou	n full scale, us electable. Accivelectable. Accivelectable. Accivelectable. Accivelectable. Accivelectable. Accivelectar. CC metapropagnity programming control monitor it by electrical it by electrical	ser selectable curacy: +/-0. curacy: +/-0. sillector. Outpu ode: On. CV r g control by e signal. Open o signal or dry signal or dry	Accuracy and 5%. 5%. 5%. on Output of the One On Output of the One One Output of the One One One One One One One One One On	but Off: Off. Mr. kimum Voltag I or dry conta te: On. Local: .6V or short, ote: 0-0.6V	laximum Volta e: 30V, Maxim ct. Remote: 0- Off. Maximum 2~30V or ope or short. Local	ge: 30V, Maxi num Sink Curr ~0.6V or shor Voltage: 30V, I en. User selec I: 2~30V or o	ent: 10mA. rt. Local: 2~3 Maximum Sink table logic. pen.	OV or open
4. lout resistor programming (*15) 5. Output voltage monitor 6. Output current monitor (*15) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal 8. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals		0~100%, 0~ 0~5V or 0~1 0~5V or 0~1 Power supply CV/CC Monito Enable/Disable Analogue progr Enable/Disable Enable/Disable	output moior. Open coe e analoguee PS output ut programming coe e PS output in programming	n full scale, us electable. Accivelectable. Accivelectable. Accivelectable. Accivelectable. Accivelectable. Accivelectar. CC metaprogramming control monitor at by electrical at by electrical mable signals	er selectable curacy: +/-0. curacy: +/-0. sillector. Outpu ode: On. CV r g control by e signal. Open o signal or dry signal or dry . Maximum v	Accuracy and 55%. 55%. on Out.	out Off: Off. M kimum Voltag I or dry conta te: On. Local: .6V or short, ote: 0~0.6V	laximum Volta e: 30V, Maxim ct. Remote: 0- Off. Maximum 2~30V or ope or short. Local current 100m/	ge: 30V, Maxi num Sink Curr ~0.6V or shor Voltage: 30V, I en. User selec I: 2~30V or o A (Shunted by	ent: 10mA. rt. Local: 2~3 Maximum Sink table logic. pen. 27V zener)	OV or open Current: 10
4. lout resistor programming (*15) 5. Output voltage monitor 6. Output current monitor (*15) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal 8. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals		0—100%, 0~ 0—5V or 0—1 0—5V or 0—1 Power supply CV/CC Monito Enable/Disable Analogue progr Enable/Disable Two open drain	-5/10Kohm 10V, user s 10V, user s output mod or. Open co e analogue ramming co e PS outpu e PS outpu in program	n full scale, us electable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable of the programming control monitor at by electrical at by electrical mable signals toltage = 0	er selectable curacy: +/-0. curacy: +/-0. ellector. Outpu ode: On. CV r g control by e signal. Open o signal or dry signal or dry . Maximum v .8V,Minimum	Accuracy and 5%. 5%. 5%. on: On. Outprode: Off. May lectrical signa ollector. Remo contact. 0~0 contact. Remoltage 25V, Migh level inp	but Off: Off. M kimum Voltag I or dry conta te: On. Local: .6V or short, ote: 0~0.6V aximum sink ut voltage =	laximum Volta e: 30V, Maxim ct. Remote: 0- Off. Maximum 2~30V or ope or short. Local current 100m/ 2.5V, Maximum	ge: 30V, Maxi num Sink Curr ~0.6V or shor Voltage: 30V, I en. User selec I: 2~30V or o A (Shunted by	ent: 10mA. rt. Local: 2~3 Maximum Sink table logic. pen. 27V zener)	OV or open Current: 10
4. lout resistor programming (*15) 5. Output voltage monitor 6. Output current monitor (*15) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal 8. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals		0—100%, 0~ 0—5V or 0—1 0—5V or 0—1 Power supply CV/CC Monito Enable/Disable Analogue progr Enable/Disable Two open drai Maximum low	-5/10Kohm 10V, user s 10V, user s output mod or. Open co e analogue ramming co e PS outpu e PS outpu in program r level inpu 0us minim	n full scale, us electable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable of the programming control monitor in the pelectrical in the pelectrical mable signals to voltage = 0 um. Tr,Tf=1u.	er selectable curacy: +/-0. curacy: +/-0. curacy: +/-0. euracy: +/-0. euracy: +/-0. euracy: -/-0. eu	Accuracy and 5%. 5%. 5%. on. Outprode: Off. May lectrical signa ollector. Remo contact. 0~0 contact. Remoltage 25V, Migh level inp Min delay betw	but Off: Off. M kimum Voltag I or dry conta te: On. Local: .6V or short, ote: 0~0.6V aximum sink ut voltage =	laximum Volta e: 30V, Maxim ct. Remote: 0- Off. Maximum 2~30V or ope or short. Local current 100m/ 2.5V, Maximum	ge: 30V, Maxi num Sink Curr ~0.6V or shor Voltage: 30V, I en. User selec I: 2~30V or o A (Shunted by	ent: 10mA. rt. Local: 2~3 Maximum Sink table logic. pen. 27V zener)	OV or open Current: 10
4. lout resistor programming (*15) 5. Output voltage monitor 6. Output voltage monitor 7. Output current monitor (*15) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal 8. LOCAL/REMOTE Analogue control 1. LOCAL/REMOTE Analogue signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal		0—100%, 0~ 0—5V or 0~1 0—5V or 0~1 CV/CC Monito Enable/Disable Analogue progr Enable/Disable Two open drair Maximum low trigger: tw=10	-5/10Kohm 10V, user s 10V, user s output moi or. Open co e analogue ramming co e PS outpu e PS outpu in program r level inpu 0us minim /oltage: 0~	n full scale, us electable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable consisters accelectable accelectab	er selectable curacy: +/-0. curacy: +/-0. curacy: +/-0. euracy: +/-0. ellector. Outpuode: On. CV rg control by e signal. Open c signal or dry signal or dry . Maximum v .8V,Minimum s Maximum, of or dry conta	Accuracy and 5%. 5%. 5%. on. Outprode: Off. May lectrical signa ollector. Remo contact. 0~0 contact. Remoltage 25V, Migh level inp Min delay betw	but Off: Off. M kimum Voltag I or dry conta te: On. Local: .6V or short, ote: 0~0.6V aximum sink ut voltage =	laximum Volta e: 30V, Maxim ct. Remote: 0- Off. Maximum 2~30V or ope or short. Local current 100m/ 2.5V, Maximum	ge: 30V, Maxi num Sink Curr ~0.6V or shor Voltage: 30V, I en. User selec I: 2~30V or o A (Shunted by	ent: 10mA. rt. Local: 2~3 Maximum Sink table logic. pen. 27V zener)	OV or open Current: 10
4. lout resistor programming (*15) 5. Output voltage monitor 6. Output voltage monitor (*15) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue 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		0—100%, 0~ 0—5V or 0~1 0—5V or 0~1 0—5V or 0~1 Power supply CV/CC Monito Enable/Disable Analogue progr Enable/Disable Two open drai Maximum low trigger: tw=10 By electrical V	-5/10Kohm 10V, user s 10V, user s output moi or. Open co e analogue ramming co e PS outpu e PS outpu in program r level inpu 0us minim /oltage: 0~	n full scale, us electable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable consisters accelectable accelectab	er selectable curacy: +/-0. curacy: +/-0. curacy: +/-0. euracy: +/-0. ellector. Outpuode: On. CV rg control by e signal. Open c signal or dry signal or dry . Maximum v .8V,Minimum s Maximum, of or dry conta	Accuracy and 5%. 5%. 5%. on. Outprode: Off. May lectrical signa ollector. Remo contact. 0~0 contact. Remoltage 25V, Migh level inp Min delay betw	but Off: Off. M kimum Voltag I or dry conta te: On. Local: .6V or short, ote: 0~0.6V aximum sink ut voltage =	laximum Volta e: 30V, Maxim ct. Remote: 0- Off. Maximum 2~30V or ope or short. Local current 100m/ 2.5V, Maximum	ge: 30V, Maxi num Sink Curr ~0.6V or shor Voltage: 30V, I en. User selec I: 2~30V or o A (Shunted by	ent: 10mA. rt. Local: 2~3 Maximum Sink table logic. pen. 27V zener)	OV or open Current: 10
4. lout resistor programming (*15) 5. Output voltage monitor 6. Output current monitor (*15) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue 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		0—100%, 0~ 0—5V or 0~1 0—5V or 0~1 Power supply CV/CC Monito Enable/Disable Analogue progr Enable/Disable Two open drair Maximum low trigger: tw=10 By electrical V 4—5V=0K, 0	-5/10Kohm 10V, user s 10V, user s output moi or. Open co e analogue ramming co e PS outpu e PS outpu in program r level inpu 0us minim /oltage: 0~ IV (500ohm	n full scale, us electable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable of the programming control monitor at by electrical anable signals to voltage = 0 um. Tr,Tf=1u-0.6V/2~30v n impedance)	er selectable curacy: +/-0. curacy: +/-0. curacy: +/-0. ellector. Outpi ode: On. CV i g control by e signal. Open o signal or dry signal or dry . Maximum v .8V,Minimum s Maximum, of or dry conta =Fail	Accuracy and 5%. 5%. 5%. on. Outprode: Off. Max lectrical signa ollector. Remo contact. 0~0 contact. Remoltage 25V, Migh level inp Min delay betweet.	but Off: Off. M kimum Voltag I or dry conta te: On. Local: .6V or short, ote: 0~0.6V aximum sink ut voltage = veen 2 pulses	laximum Volta e: 30V, Maxim ct. Remote: 0- Off. Maximum 2~30V or ope or short. Local current 100m/ 2.5V, Maximu s 1ms.	ge: 30V, Maxi num Sink Curr ~0.6V or shor Voltage: 30V, I en. User selec I: 2~30V or o A (Shunted by	ent: 10mA. rt. Local: 2~3 Maximum Sink table logic. pen. 27V zener)	OV or open Current: 10
4. lout resistor programming (*15) 5. Output voltage monitor 6. Output current monitor (*15) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue 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~ 0—5V or 0~1 0—5V or 0~1 0—5V or 0~1 CV/CC Monito Enable/Disable Analogue progr Enable/Disable Two open drair Maximum low trigger: tw=10 By electrical V 4—5V=0K, 0	-5/10Kohm 10V, user s 10V, user s output moi or. Open co e analogue ramming co e PS outpu e PS outpu in program r level inpu 0us minim /oltage: O— DV (500ohm	n full scale, us electable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable of the programming control monitor at by electrical anable signals to voltage = 0 um. Tr,Tf=1u-0.6V/2~30v n impedance)	er selectable curacy: +/-0. curacy: +/-0. curacy: +/-0. ellector. Outpi ode: On. CV i g control by e signal. Open o signal or dry signal or dry . Maximum v .8V,Minimum s Maximum, of or dry conta =Fail	Accuracy and 5%. 5%. 5%. on. Outprode: Off. Max lectrical signal ollector. Remo contact. 0~0 contact. Remoltage 25V, Migh level inp Min delay between the contact. October 1 in delay between the contact. Remoltage 25V, Migh level inp Min delay between the contact. Remoltage 25V, Migh level inp Min delay between the contact. Remoltage 25V, Migh level inp Min delay between the contact in the cont	but Off: Off. M kimum Voltag I or dry conta te: On. Local: .6V or short, ote: 0~0.6V aximum sink ut voltage = veen 2 pulses	laximum Volta e: 30V, Maxim ct. Remote: 0- Off. Maximum 2~30V or ope or short. Local current 100m/ 2.5V, Maximu s 1ms.	ge: 30V, Maxi num Sink Curr ~0.6V or shor Voltage: 30V, I en. User selec I: 2~30V or o A (Shunted by	ent: 10mA. rt. Local: 2~3 Maximum Sink table logic. pen. 27V zener)	OV or open Current: 10
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Specifications GENESYS+ $^{\text{\tiny TM}}$ G (3.4kW)

Output Rating	G V	10-340	20-170	30-112	40-85	60-56	80-42	100-34	150-22.5	300-11.5	600-5.
Rated output voltage(*1) Rated output current (*2)	A	340 (*3)	170	112	40 85	60 56	80 42	100 34	150 22.5	300	5.6
2. Rated output current (*2)	W	340 (*3) 3400	3400	3360	3400	3360	3360	34	3375	11.5 3450	3360
3. Rated output power	_									_	_
Input Characteristics	V	10	20	30	40	60	80	100	150	300	600
1. Input voltage/freq. 3 phase, 3 wire + Ground (*4)		3-Phase, 40 3-Phase, 48	OV models: 3 OV models: 3	170~265Vac, 342~460Vac, 342~528Vac, 170~265Vac,	47~63Hz (0 47~63Hz (0	Covers 380/40 Covers 380/40	0/415Vac) 0/415/440/4				
2. Maximum Input current at 100% load				12.5A @ 200\ 21A @ 200Va		se, 400V mod	els: 6.5A @ 3	380Vac 3-P	hase, 480V mo	dels: 6.5A @	380Vac
3. Power Factor (Typ)		For 3-Phase	: 0.94 @ 20	0/380Vac, rate	ed output pov	er. For 1-Pha	se: 0.99 @ 2	200Vac, rated o	output power.		
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)	Α	Less than 50									
Constant Voltage Mode	V	10	20	30	40	60	80	100	150	300	600
1. Max. Line regulation (*7)		0.01% of rat	ed output vol	Itage							
2. Max. Load regulation (*8)			ed output vol	Itage +5mV							
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 f	rom rated out	tput voltage, fo	ollowing 30 r	ninutes warm-	up.				
6. Temperature stability		0.01% of rat	ed Vout over	8hrs interval f	ollowing 30	minutes warm	up. Constant	t line, load & te	emp.		
7. Warm-up drift		Less than 0.	05% of rated	output voltage	e+2mV over	30 minutes fo	llowing powe	er 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	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
No load (*12)	mS	450	600	800	900	1100	1300	2100	2000	3000	3100
11. Transient response time	mS								of rated output OV. 2mS, for m		00V.
12. Start up delay	Sec	Less than 6	Sec								
Constant Current Mode	V	10	20	30	40	60	80	100	150	300	600
1. Max. Line regulation (*7)		0.05% of rat	ed output cui	rrent.							
2. Max. Load regulation (*13)		0.08% of rat	ed output cui	rrent.							
3. Ripple r.m.s. @ rated voltage. 3-Phase (*14)	mA	≤800	≤450	≤300	≤150	≤100	≤70	≤45	≤30	≤12	≤5
4. Ripple r.m.s. @ rated voltage. 1-Phase (*14)	mA	≤1200	≤600	≤300	≤300	≤200	≤100	≤60	≤40	≤12	≤8
5. Temperature coefficient	PPM/°C	10V~100V:	100PPM/°C,	150V~600V	70PPM/°C	rom rated out	out current, fo	ollowing 30 mi	nutes warm-up).	
6. Temperature stability								line, load & te	•		
7. Warm-up drift							•		er 30 minutes f	ollowing powe	r on.
Analogue Programming and Monitoring (Isolate	ed from th	e Output)					_	•			
Vout voltage programming			~5V or 0~1	OV. user selec	table. Accur	acv and linear	tv: +/-0.159	6 of rated Vout			
2. lout voltage programming (*15)				OV, user selec		-	•				
3. Vout resistor programming								'-0.5% of rated	Vout.		
4. lout resistor programming (*15)								'-0.5% of rated			
				electable. Acc							
5. Output voltage monitor					uiacv. +/-0.	5%.					
Output voltage monitor Output current monitor (*15)		0~5V or 0~	~10V, user se	electable. Acc	-						
6. Output current monitor (*15)		0~5V or 0~	~10V, user se	electable. Acc	-						
6. Output current monitor (*15) Signals and Controls (Isolated from the Output)		1			uracy: +/-0.	5%.	ut Off: Off. M	laximum Voltad	ne: 30V. Maxim	num Sink Curre	ent: 10m
6. Output current monitor (*15) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal		Power suppl	y output mor	nitor. Open col	uracy: +/-0.	5%. t On: On. Outp			ge: 30V, Maxim		ent: 10m
6. Output current monitor (*15) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal		Power suppl	y output mor itor. Open co	nitor. Open col Ilector. CC mo	lector. Outpu	5%. t On: On. Outp node: Off. Max	imum Voltag	e: 30V, Maxim	um Sink Currei	nt: 10mA.	
6. Output current monitor (*15) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analogue control		Power suppl CV/CC Mon Enable/Disa	y output mor itor. Open co ble analogue	nitor. Open col Ilector. CC mo programming	lector. Outpute: On. CV r	5%. t On: On. Outp node: Off. Max ectrical signal	imum Voltag or dry conta	e: 30V, Maxim ct. Remote: 0~	um Sink Currer ~0.6V or short.	nt: 10mA. Local: 2~30\	V or oper
6. Output current monitor (*15) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue signal		Power suppl CV/CC Mon Enable/Disa Analogue pro	y output mor itor. Open co ble analogue ogramming co	nitor. Open col Hector. CC mo programming ontrol monitor s	lector. Outpu de: On. CV r control by e ignal. Open c	t On: On. Outp node: Off. Max ectrical signal ollector. Remo	imum Voltag or dry conta e: On. Local:	e: 30V, Maxim ct. Remote: 0~ Off. Maximum \	um Sink Currer -0.6V or short. Voltage: 30V, M	nt: 10mA. Local: 2~30' aximum Sink C	V or oper
6. Output current monitor (*15) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue signal 5. ENABLE/DISABLE signal		Power suppl CV/CC Mon Enable/Disa Analogue pro Enable/Disa	y output mor itor. Open co ble analogue ogramming co ble PS outpu	nitor. Open col llector. CC mo programming ontrol monitor s t by electrical	lector. Outputede: On. CV r control by e signal. Open c	t On: On. Outp node: Off. Max ectrical signal ollector. Remo contact. 0~0	imum Voltag or dry conta e: On. Local: 6V or short,	e: 30V, Maxim ct. Remote: 0~ Off. Maximum \ 2~30V or ope	um Sink Currer ~0.6V or short. Voltage: 30V, M n. User selecta	nt: 10mA. Local: 2~30\ aximum Sink C ble logic.	V or oper
6. Output current monitor (*15) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control		Power suppl CV/CC Mon Enable/Disa Analogue pro Enable/Disa Enable/Disa	y output mor itor. Open co ble analogue ogramming co ble PS outpu	nitor. Open col Ilector. CC mo programming ontrol monitor s t by electrical t by electrical	lector. Outpute: On. CV r control by e ignal. Open c signal or dry signal or dry	t On: On. Outp node: Off. Max ectrical signal ollector. Remo contact. 0~0 contact. Remo	imum Voltag or dry conta e: On. Local: 6V or short, ote: 0~0.6V	e: 30V, Maxim ct. Remote: 0- Off. Maximum V 2~30V or ope or short. Local	um Sink Currer ~0.6V or short. Voltage: 30V, M n. User selecta : 2~30V or op	nt: 10mA. Local: 2~30¹ aximum Sink C ıble logic. en.	V or oper
6. Output current monitor (*15) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals		Power suppl CV/CC Mon Enable/Disal Analogue pro Enable/Disal Enable/Disal Two open dr	y output mor itor. Open co ble analogue ogramming co ble PS outpur ble PS outpur ain programr	nitor. Open col Illector. CC mo programming ontrol monitor s t by electrical t by electrical mable signals.	lector. Outpude: On. CV r control by e signal. Open c signal or dry signal or dry Maximum v	t On: On. Outp node: Off. Max ectrical signal ollector. Remo contact. 0~0 contact. Remo litage 25V, Ma	imum Voltag or dry conta te: On. Local: 6V or short, ote: 0~0.6V eximum sink	e: 30V, Maxim ct. Remote: 0- Off. Maximum \ 2~30V or ope or short. Local current 100mA	um Sink Currer -0.6V or short. Voltage: 30V, M n. User selecta : 2~30V or op t (Shunted by 2	nt: 10mA. Local: 2~30' aximum Sink C ble logic. en. ?7V zener)	V or oper Current: 10
6. Output current monitor (*15) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals		Power suppl CV/CC Mon Enable/Disal Analogue pro Enable/Disal Two open dr Maximum Ic	ly output mor itor. Open co ble analogue ogramming co ble PS outpur ble PS outpur ain programr we level input	nitor. Open col Illector. CC mo programming ontrol monitor s t by electrical t by electrical mable signals.	uracy: +/-0. lector. Outputede: On. CV rocontrol by eignal. Open cignal or dry signal or dry Maximum via V, Minimum	t On: On. Outp node: Off. Max ectrical signal ollector. Remo contact. 0~0 contact. Remo oltage 25V, Ma high level inp	imum Voltag or dry conta te: On. Local: 6V or short, ote: 0~0.6V eximum sink ut voltage =	e: 30V, Maxim ct. Remote: 0~ Off. Maximum V 2~30V or ope or short. Local current 100mA 2.5V, Maximum	um Sink Currer ~0.6V or short. Voltage: 30V, M n. User selecta : 2~30V or op	nt: 10mA. Local: 2~30' aximum Sink C ble logic. en. ?7V zener)	V or oper Current: 10
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6. Output current monitor (*15) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue 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		Power suppl CV/CC Mon Enable/Disa Analogue pro Enable/Disa Two open dr Maximum Ic trigger: tw = By electrical 4~5V=0K,	y output mor itor. Open co ble analogue ogramming cc ble PS output ain programming w level input 10us minimut Voltage: 0~ 0V (500ohm	nitor. Open collector. CC morpogramming portrol monitors to by electrical to by electrical mable signals. The collection of the collection	uracy: +/-0. lector. Outpu de: On. CV r control by e ignal. Open c signal or dry signal or dry Maximum v 3V,Minimum s Maximum, or dry contac =Fail	t On: On. Outp node: Off. Max ectrical signal ollector. Remo contact. 0~0 contact. Remo oltage 25V, Ma high level inp Min delay betv	imum Voltag or dry conta ie: On. Local: 6V or short, ite: 0~0.6V iximum sink ut voltage = iveen 2 pulses	e: 30V, Maxim ct. Remote: 0- Off. Maximum \ 230V or ope or short. Local current 100mA 2.5V, Maximul s 1 ms.	um Sink Currer -0.6V or short. Voltage: 30V, M n. User selecta : 2~30V or op t (Shunted by 2	nt: 10mA. Local: 2~30' aximum Sink C ble logic. en. ?7V zener)	V or oper Current: 10
6. Output current monitor (*15) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue 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		Power suppl CV/CC Mon Enable/Disa Analogue pro Enable/Disa Two open dr Maximum Ic trigger: tw = By electrical 4~5V=0K,	y output mor itor. Open co ble analogue ogramming cc ble PS output ain programming w level input 10us minimut Voltage: 0~ 0V (500ohm	nitor. Open collector. CC morprogramming portrol monitors to by electrical to by electrical mable signals. The collection of the collectio	uracy: +/-0. lector. Outputde: On. CV rocontrol by e ignal. Open c signal or dry signal or dry Maximum v. BV, Minimum si Maximum, or dry contact = Fail	t On: On. Outp node: Off. Max ectrical signal ollector. Remo contact. 0~0 contact. Remo oltage 25V, Ma high level inp Min delay betv t.	imum Voltag or dry conta ie: On. Local: 6V or short, ite: 0~0.6V iximum sink ut voltage = iveen 2 pulses	e: 30V, Maxim ct. Remote: 0- Off. Maximum \ 230V or ope or short. Local current 100mA 2.5V, Maximul s 1 ms.	um Sink Currer -0.6V or short. Voltage: 30V, M n. User selecta : 2~30V or op t (Shunted by 2	nt: 10mA. Local: 2~30' aximum Sink C ble logic. en. ?7V zener)	V or oper Current: 1
6. Output current monitor (*15) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue 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		Power suppl CV/CC Mon Enable/Disa Analogue pro Enable/Disa Two open dr Maximum Ic trigger: tw= By electrical 4~5V=OK, Possible. Up	y output mor itor. Open co ble analogue ogramming cc ble PS output ble PS output ain programm w level input 10us minimut Voltage: 0~0V (500ohm ot 4 identical us identical us identical users.)	nitor. Open collector. CC moprogramming portrol monitors to by electrical to by electrical mable signals. The signal of the sign	lector. Outputde: On. CV rocontrol by e ignal. Open c signal or dry signal or dry Maximum vi Maximum, or dry contact = Fail	t On: On. Outp node: Off. Max ectrical signal ollector. Remo contact. O~O contact. Remo oltage 25V, Ma high level inp Min delay betv t.	imum Voltag or dry conta ie: On. Local: 6V or short, tote: 0~0.6V iximum sink ut voltage = eeen 2 pulses	e: 30V, Maxim ct. Remote: 0- Off. Maximum \ 230V or ope or short. Local current 100mA 2.5V, Maximul s 1ms.	um Sink Currer -0.6V or short. Voltage: 30V, M n. User selecta : 2~30V or op t (Shunted by 2	nt: 10mA. Local: 2~30' aximum Sink C ble logic. en. ?7V zener)	V or ope Current: 1
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6. Output current monitor (*15) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue 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		Power suppl CV/CC Mon Enable/Disa Analogue pro Enable/Disa Two open dr Maximum Ic trigger: tw = By electrical 4~5V=OK, Possible. Up Possible. Tw Power suppl Limits the or	y output mor itor. Open co ble analogue ogramming cc ble PS output ble PS output ain programm w level input 10us minimut Voltage: 0~ OV (500ohm o to 4 identical u ies can be coutput power t	nitor. Open collector. CC morprogramming portrol monitors to by electrical to by electrical mable signals. The collection of the collectio	lector. Outputde: On. CV rocontrol by e ignal. Open c signal or dry signal or dry Maximum v. BV, Minimum si Maximum, or dry contact = Fail siter/Slave monstruction m is y chain to ed value. Proed	t On: On. Outp node: Off. Max ectrical signal ollector. Remo contact. 0~0 contact. Remo oltage 25V, Ma high level inp Min delay betv it.	imum Voltag or dry conta ie: On. Local: 6V or short, tote: 0~0.6V iximum sink ut voltage = reen 2 pulses struction mai	e: 30V, Maxim ct. Remote: 0- Off. Maximum \ 230V or ope or short. Local current 100mA 2.5V, Maximul s 1 ms. nual. d turn-off. ication ports o	um Sink Currer -0.6V or short. Voltage: 30V, M -n. User selecta -2 -30V or op -3 (Shunted by 2 m high level in	nt: 10mA. Local: 2~30' aximum Sink C ble logic. en. 27V zener) put = 5V posi	V or oper current: 11
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6. Output current monitor (*15) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue 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		Power suppl CV/CC Mon Enable/Disal Analogue pro Enable/Disal Two open dr Maximum lo trigger: tw = By electrical 4~5V=0K, Possible. Up Possible. Tw Power suppl Limits the or Emulates se Programmat	y output mor itor. Open co ble analogue ogramming co ble PS output ble PS output ain programr we level input 10us minimut Voltage: 0~ OV (500ohm ot o dientical utiles can be coutput power tries resistance) le Output riss	nitor. Open col Illector. CC mc programming portrol monitor s t by electrical t by electrical mable signals. voltage = 0.i um. Tr,Tf = 1 us -0.6V/2 ~ 30V n impedance) = al units in Mas nits. Refer to i connected in Da o a programm te. Resistance te and Output i	lector. Outpu de: On. CV r control by e ignal. Open c signal or dry signal or dry Maximum v 3V. Minimum b Maximum, i or dry contact = Fail ster/Slave mc nstruction m sign chain to ed value. Pro range: 1—1 all slew rate.	t On: On. Outplode: Off. Maxectrical signal oblector. Remo contact. O~O contact. Remo litage 25V, Mahigh level inplome delay between the contact. Synchronize the gramming via 000mΩ. Programming via programming programming proportion of the contact of the conta	imum Voltag or dry conta ie: On. Local: 6V or short, tte: 0~0.6V iximum sink ut voltage = reen 2 pulses struction man eir turn-on an the commun ramming via	e: 30V, Maxim ct. Remote: 0- Off. Maximum \ 230V or ope or short. Local current 100mA 2.5V, Maximul s 1 ms. nual. d turn-off. ication ports o	um Sink Currer -0.6V or short. Voltage: 30V, M	nt: 10mA. Local: 2~30' aximum Sink C ble logic. en. 27V zener) put = 5V posi	V or oper
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Specifications GENESYS+™ G (5kW)

Output Rating	G		20-250	_	40-125	_	_	80-65	_	150-34	_	300-17	_	500-10	_
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 mo	dels: 170- dels: 342- dels: 342-	~460Vac,	47~63H	z (Covers :	380/400/4		60/480Va	c)				
2. Maximum Input current at 100% load		3-Phase,	, 400V ma	dels: 17.5 dels: 9.2A dels: 9.2A	@ 380Va	ac									
3. Power Factor (Typ)		0.94 @	200/380V	ac, rated o	utput pow	er.									
4. Efficiency (Typ) (*5) (*22)	%	89(*21)	91	91	91	90	91	91	91	91	91	92	92	92	92
5. Inrush current (*6)	Α	Less than	n 50A												
Constant Voltage Mode	V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1. Max. Line regulation (*7)		0.01% of	f rated out	put voltage	9										
2. Max. Load regulation (*8)		0.01% of	f rated out	put 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		50PPM/													
6. Temperature stability									. Constant	line, load	& temp.				
7. Warm-up drift									wing powe		p				
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: Full load (*11)	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	Time for	output vo	Itage to red	cover withi	n 0.5% of	its rated o	utput for a	load char s up to and	ige 10~9	0% of rate	d output c	urrent.		3000
12. Start up delay	Sec	Less than	n 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	f rated out	put curren	t.										
2. Max. Load regulation (*13)				put current											
3. Ripple r.m.s. @ rated voltage. B.W 5Hz~1MHz (*14)	mA	≤1200	≤600	≤300	≤150	≤130	≤100	≤70	≤45	≤45	≤45	≤15	≤12	≤10	≤8
4. Temperature coefficient	PPM/°C	10V~10	0V: 100PF	PM/°C, 15	0V~600V	: 70PPM/°	°C from rat	ted output	current, fo	llowing 30) minutes	warm-up.			
5. Temperature stability		0.01% of	f rated lou	t over 8hrs	. interval f	ollowing 3	30 minutes	warm-up	. Constant	line, load	& tempera	iture.			
6. Warm-up drift		10V~10	0V: Less t	han +/-0.2	25%, 150V	∕~600V: L	ess than +	+/-0.15%	of rated ou	tput currer	nt over 30 r	minutes fol	llowing po	wer on.	
Analogue Programming and Monitoring (Iso	lated from	n the Out	put)												
Vout voltage programming				or 0~10V.	user selec	ctable. Acc	curacy and	l linearity:	+/-0.15%	of rated \	/out.				
2. lout voltage programming (*15)									+/-0.4%						
Vout resistor programming									earity: +/-						
4. lout resistor programming (*15)								,	earity: +/-						
5. Output voltage monitor				user selec					ourity. 17	0.070 0110	atou iout.				
Output current monitor (*15)				user selec											
Signals and Controls (Isolated from the Out)	nut)	0 000	0 100,	4301 30100	table. Acc	uracy. 17	0.070 0111	atou iout.							
1. Power supply OK #1 signal		Dowor or	innly outn	ut monitor	Onon col	loctor Ou	tout On: O	n Outnut	Off: Off. Ma	nvimum V	oltago: 20\	/ Mavimu	m Cink Cı	ırront: 1Ωm	٦Λ
2. CV/CC signal									um Voltage					illelit. Toll	IA.
														ON/ or one	n.
3. LOCAL/REMOTE Analogue control									dry contac						
4. LOCAL/REMOTE Analogue signal		-							On. Local: (k Gurrent: 1	IUITIA.
5. ENABLE/DISABLE signal							,		or short, 2						
6. INTERLOCK (ILC) control									0~0.6V						
7. Programmed signals									num sink o						
8. TRIGGER IN / TRIGGER OUT signals									oltage = 1	2.5V, Max	imum high	ı level inpu	ut = 5V p	ositive edg	je trigge
0 DAISY IN/SO control signal				n. Tr,Tf=1				een z puis	es iiis.						
9. DAISY_IN/SO control signal		-		ge: 0~0.6			ııdül.								
10. DAISY_OUT/PS_OK #2 signal		4~5V=	UK, UV (5	00ohm im	pedance)=	=Fail									
Functions and Features															
1. Parallel operation				. ,				mode. Ref	er to instru	iction man	nual. For m	ore power	please co	nsult with	Factory.
2. Series operation				ntical units											
3. Daisy chain									turn-on an						
Constant power control		Limits th	e output p	ower to a	programm	ed value. I	Programm	ing via the	communi	cation por	ts or the fr	ont panel.			
5. Output resistance control		Emulates	s series re	sistance. F	Resistance	range: 1~	-1000mΩ	. Program	ming via tl	ne commu	inication p	orts or the	front pane	el.	
6. Slew rate control				put rise ar he commu					nge: 0.000	1~999.99	9V/mS or A	∜mS.			
7. Arbitrary waveforms						ed in 4 me	mory cells	s. Activatio	n by comr	mand via tl	he commu	nication p	orts or by	the front p	anel.
Programming and Readback (USB, LAN, RS23	32/485, O _I	ptional IEE	E(*19)(*	20) Interfa	aces)										
		0.05% of	f rated out	put voltage	9										
Vout programming accuracy (*16)															
			actual out	out current	+0.2% 0	f rated out	put curren	IL							
1. Vout programming accuracy (*16)		0.1% of a		out current utput voltaç		f rated out	put curren	IL .							
Vout programming accuracy (*16) lout programming accuracy (*15)		0.1% of a	of rated or		ge	f rated out	put curren	ıı							
Vout programming accuracy (*16) lout programming accuracy (*15) Vout programming resolution lout programming resolution		0.1% of a 0.002% 0.002%	of rated or of rated or	ıtput voltaç ıtput curre	ge nt	f rated out	put curren	IL							
Nout programming accuracy (*16) lout programming accuracy (*15) Vout programming resolution lout programming resolution Vout readback accuracy		0.1% of a 0.002% o 0.002% o	of rated ou of rated ou of rated ou	utput voltaq utput curre tput voltag	ge nt	f rated out	put curren								
Vout programming accuracy (*16) lout programming accuracy (*15) Vout programming resolution lout programming resolution		0.1% of a 0.002% of 0.005% of 0.2% of a	of rated ou of rated ou of rated ou rated outp	utput voltaq utput curre tput voltag	ge nt e			0.002%	0.011%	0.007%	0.005%	0.004%	0.003%	0.003%	0.0029

Specifications GENESYS+™ G (2.7/3.4/5kW)

Protective Functions	٧	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1. Foldback protection						nanges mode cle in autosta								on.	
2. Over-voltage protection (OVP)		Output sh	nut-down.	Reset by A	C input red	ycle in auto	start mode,	by OUTPUT	button, by	rear panel o	r by comm	unication.			
3. Over-voltage programming range	٧	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	5~661.5
4. Over-voltage programming accuracy		+/-1% 0	f rated ou	tput voltag	е										
5. Output under voltage limit (UVL)		Prevents	from adju	sting Vout	below limit	. Does not a	pply in ana	ogue progr	amming. Pr	eset by front	t panel or c	ommunicati	on port.		
6. Over temperature protection		Shuts do	wn the ou	tput. Auto i	ecovery by	autostart me	ode.								
7. Output under voltage limit (UVL)		Prevents	adjustme	nt of Vout b	elow limit.										
8. Output under voltage protection						P.S output t									
(UVP)		Reset by	AC input	recycle in a	autostart m	ode, by Pow	er Switch, b	y OUTPUT	button, by r	ear panel or	by commu	nication.			
Front Panel		A 4 101 1		0.5											
1. Control functions		Vout/lout, OVP/UVL Protection Commun Output Ol Commun Analogue	Power Li /UVP mar n Function ication Fu N/OFF. Fr ication Fu Control I	inctions - S ont Panel L inctions - S unctions -	JVL,UVP, F Selection of ock. Selection of Selection	oldback, OCI LAN,IEEE,R Baud Rate, Voltage/resis of Voltage/C	S-232,RS-4 Address, IP stive progra	and comm mming, 5V/	unication la /10V, 5K/10	nguage.					
2. Display		Vout: 4 d	igits, accı	uracy: 0.05	% of rated	output voltaç itput current	je +/-1 co	unt.							
3. Front Panel Buttons Indications		OUTPUT	ON, ALAF	RM, PREVIE	W, FINE, C	OMMUNICA	TION, PROT	ECTION,CC	NFIGURATI	ON, SYSTEM	Л, SEQUEN	CER.			
4. Front Panel Display Indications						ernal Voltag IEEE commi					afetstart, Fo	ldback V/I,			
Environmental Conditions		,						00 /							
Operating temperature		0~50°C,	100% lo	ad.											
Storage temperature		-30~85°	C												
3. Operating humidity	%	20~90%	RH (no d	condensatio	on).										
Storage humidity	%	10~95%	RH (no d	condensatio	on).										
5. Altitude (*17)		Operating	: 10000ft	(3000m), (output curre	nt derating 2	%/100m or	Ta derating	1°C/100m	above 2000r	m. Non ope	rating: 4000	Oft (12000r	m).	
Mechanical		1 -1 3		(//			.,		,			<u> </u>			
1. Cooling		Forced ai	r coolina	by internal	fans. Air fl	ow direction	from Front	panel to po	ower supply	rear					
2. Weight	kg			•		Less than 7.		1							
3. Dimensions (WxHxD)	mm	W: 423,	H: 43.6,	D: 441.5 (Without bus	sbars and bu	sbars cover								
		-				usbars and b		, ,	Outline dra	awing).					
4. Vibration		MIL-8100	G, method	1 514.6, Pr	ocedure I, t	est condition	Annex C -	2.1.3.1							
5. Shock		Less than	20G, hal	f sine, 11m	S. Unit is i	ınpacked.									
Safety/EMC															
Applicable standards: Safety		UL61010	-1, CSA2	2.2 No.610	010-1, IEC6	31010-1, EN	61010-1								
1.1 Interface classification						1, J5, J6, J7, ense) are haz							Non Hazaro	lous.	
1.2 Withstand voltage		60V≤Vou Output & Output & 100V <v Output &</v 	t≤100V M J8 (sens J8 (sens out≤600V J8 (sens	Models: Inp e) - J1, J2, e) - Ground Models: Ii e) - J1, J2,	ut — Outpui J3, J4, J5, I: 1500Vdc nput — Outp J3, J4, J5,	(sense), J1, 2 & J8 (sense 36, J7 & J9 1min, Input 3 but & J8 (ser 3 J6, J7 & J9 1min, Input	e), J1, J2, J (communi - Ground: 2 (se), J1, J2 (communi	3, J4, J5, J cation optio 2835Vdc 1n , J3, J4, J5 cation optio	6, J7 & J9 (ns): 850Vd nin. , J6, J7 and ns): 1275V	(communica c 1min. J9 (commu	ition option	s): 4242Vdd	1min,	ound: 2835Vd	dc 1min.
1.3 Insulation resistance		100Mohr	n at 25°C	, 70%RH. (Output to G	round 500Vo	lc								
2. Conducted emission		IEC/EN61	204-3 In	dustrial env	vironment,	Annex H tabl	e H.1 , FCC	Part 15-A,	VCCI-A.						
3. Radiated emission		IEC/EN61	204-3 In	dustrial env	vironment,	Annex H tabl	e H.3 and	H4, FCC Pa	rt 15-A, VC	CI-A					
4. EMC compliance EMC(*18)		According	g to IEC/E	N61204-3	Industrial	environment									

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

- * 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: G5kW: Derate 5A/1°C above 40°C G3.4kW: Derate 5A/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 power.
- * 6: Not including EMI filter inrush current, less than 0.2mS.
- * 7: 3-Phase 200V models: 170—265Vac, 3-Phase 400V models: 342—460Vac, 3-Phase 480V models: 342—528Vac. Constant load.
 * 8: From No-Load to Full-Load, constant input voltage. Measured at the sensing point in Remote Sense.
- * 9: For 10V~150V models: Measured with JEITA RC-9131C (1:1) probe. For 200~600V model: Measured with 100:1 probe.
- * 10: The maximum voltage on the power supply terminals must not exceed the rated voltage
 * 11: From 10% to 90% or 90% to 10% of Rated Output Voltage, with rated, resistive load.
- * 12: From 90% to 10% of Rated Output Voltage.
- * 13: For load voltage change, equal to the unit voltage rating, constant input voltage.
- * 14: For 10V model, the ripple is measured at 20~100% of rated output voltage and rated output current. For other models, the ripple is measured at 10~100% of rated output voltage and rated output current. B.W 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 Ta 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 40°C.
- * 20: For 10V model only: Max. output current for using IEEE is 400A up to 40°C and 450A up to 30°C.
- * 21: For 10V model only: For 3-Phase 200V efficiency is 88.5%
- * 22: Typ. at Ta=25°C, rated output power.

Specifications GENESYS+™ GSP (10kW)

Output Rating	GSP		20-500	_		50-200			100-100		200-50		_		
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	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: 342-	-460Vac,	47~63Hz	(Covers 3	200/230Va 880/400/4 880/400/4	15Vac)	60/480Vac	;)				
Maximum Input current at 100% load		3-Phase,	200V mod	dels: 35A	@ 200Vac	3-Phase	e, 400V m	odels: 18.	4A @ 380	OVac 3-P	hase, 480\	V models:	18.4A @	380Vac	
3. Power Factor (Typ)		_			utput powe										
4. Efficiency (Typ) (*5) (*22)	%	89(*21)		91	91	91	91	91	91	91	91	92	92	91	92
5. Inrush current (*6)	A	Less than	100A												
6. AC line phase imbalance	%	< 5%			40	=0			100	450		000	100	=00	000
Constant Voltage Mode	V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1. Max. Line regulation (*7)				out voltage											
2. Max. Load regulation (*8) 3. Ripple and noise (p-p, 20MHz) (*9)	mV	75	75	out voltage 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/°0							10	20	10	100	100	00	100
6. Temperature stability								warm-up.	Constant	line. load	& temp.				
7. Warm-up drift								utes follow			G tomp.				
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: Full load (*11)	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	Output se	t-point: 10								0% of rated 100V. 2m			e 100V.	
12. Start up delay	Sec	Less than		0.0	46	F.0	00	00	460	450	000	000	400	F00	666
Constant Current Mode	V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1. Max. Line regulation (*7)				out current											
2. Max. Load regulation (*13)		1500	rated outp	out current 600	300	200	150	100	70	45	45	15	15	12	10
3. Ripple r.m.s. @ 10% rated voltage (*14) 4. Ripple r.m.s. @ 100% rated voltage (TA25°C) (*14)	mA	1200	700	300	150	100	75	50	35	23	23	7.5	15 7.5	8	6
5. Temperature coefficient	PPM/°C	10V~100						1					1.5	0	0
6. Temperature stability											& tempera				
7. Warm-up drift											it over 30 n		lowing no	wer on	
Analogue Programming and Monitoring (Iso					.070, 1001	0001. 20		7 0.1070 0	Tratoa oa	par carron			ioning po		
Vout voltage programming				r 0~10V.	user selec	table. Acci	uracy and	linearity: -	+/-0.15%	of rated V	out.				
2. lout voltage programming (*15)															
0.1/			0~100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: +/-0.4% of rated lout. 0~100%, 0~5/10Kohm full scale, user selectable. Accuracy and linearity: +/-0.5% of rated Vout.												
Vout resistor programming							uracy and	linearity: -	+/-0.4% (ut.				
Vout resistor programming Iout resistor programming (*15)		0~100%	, 0~5/10	Kohm full	scale, use	r selectabl	uracy and e. Accura	linearity: -	+/-0.4% (earity: +/-	0.5% of ra	ut. ated Vout.				
1 0 0		0~100% 0~100%	, 0~5/10 , 0~5/10	Kohm full Kohm full	scale, use	r selectabl r selectabl	uracy and e. Accura e. Accura	linearity: - cy and line cy and line	+/-0.4% (earity: +/-	0.5% of ra	ut. ated Vout.				
Lout resistor programming (*15) Output voltage monitor		0~100% 0~100% 0~5V or	, 0~5/10 , 0~5/10 0~10V, u	Kohm full Kohm full user select	scale, use scale, use	r selectabl r selectabl racy: +/-	uracy and e. Accura e. Accura 0.5% of ra	linearity: - cy and line cy and line ted Vout.	+/-0.4% (earity: +/-	0.5% of ra	ut. ated Vout.				
4. lout resistor programming (*15) 5. Output voltage monitor 6. Output current monitor (*15)		0~100% 0~100% 0~5V or	, 0~5/10 , 0~5/10 0~10V, u	Kohm full Kohm full user select	scale, use scale, use able. Accu	r selectabl r selectabl racy: +/-	uracy and e. Accura e. Accura 0.5% of ra	linearity: - cy and line cy and line ted Vout.	+/-0.4% (earity: +/-	0.5% of ra	ut. ated Vout.				
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% 0~5V or 0~5V or	$0\sim5/10$, $0\sim5/10$ $0\sim10V$, $0\sim10V$, $0\sim10V$, $0\sim10V$	Kohm full Kohm full user select user select ut monitor.	scale, use scale, use able. Accu able. Accu	r selectabl r selectabl racy: +/- racy: +/- ector. Out	uracy and e. Accura e. Accura 0.5% of ra 0.5% of ra put On: Or	linearity: - cy and line cy and line ted Vout. ted lout.	+/-0.4% (earity: +/-earity: +/-	0.5% of ra	ut. ated Vout. ated lout. bltage: 30V			ırrent: 10n	nA.
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	 out)	0~100% 0~100% 0~5V or 0~5V or Power sup	, 0~5/10 , 0~5/10 0~10V, u 0~10V, u pply outpu onitor. Op	Kohm full Kohm full user select user select ut monitor.	scale, use scale, use able. Accu able. Accu Open coll or. CC mo	r selectabl r selectabl racy: +/- racy: +/- ector. Out de: On. CV	uracy and e. Accurace. Accurace. Accurace 0.5% of ra 0.5% of ra put On: Or	linearity: - cy and line cy and line ted Vout. ted lout. n. Output O	+/-0.4% (earity: +/-earity: +/-	0.5% of ra 0.5% of ra aximum Vo	ut. ated Vout. ated lout. oltage: 30V ximum Sir	k Current:	10mA.		
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 Analogue control	 out) 	0~100% 0~100% 0~5V or 0~5V or Power sup CV/CC Me	, 0~5/10 , 0~5/10 0~10V, u 0~10V, u pply outpu onitor. Op sable ana	Kohm full Kohm full user select user select ut monitor. en collect logue prog	scale, use scale, use able. Accu able. Accu Open coll or. CC moo	r selectabl r selectabl racy: +/-l racy: +/-l ector. Outp de: On. CV control by	e. Accurace. Accurace. Accurace. O.5% of race. O.5% of race. O.5% of race. O.5% of race. Or one of mode: Of electrical	linearity: -cy and line cy and line cy and line ted Vout. ted lout. n. Output Off. Maximu signal or o	+/-0.4% (earity: +/- earity: +/- off: Off. Ma m Voltage dry contact	0.5% of ra 0.5% of ra aximum Vo 30V, Ma tt. Remote	ut. ated Vout. ated lout. bltage: 30V ximum Sin: : 0~0.6V (nk Current: or short. L	10mA. ocal: 2~3	30V or ope	en.
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 Analogue control 4. LOCAL/REMOTE Analogue signal	 out) 	0~100% 0~100% 0~5V or 0~5V or Power sup CV/CC Me Enable/Di Analogue	, $0\sim5/10$, $0\sim5/10$ $0\sim10$ V, $0\sim10$ V	Kohm full Kohm full user select user select ut monitor. en collect logue prog	scale, use scale, use able. Accu able. Accu Open coll or. CC moo gramming I monitor si	r selectabl r selectabl racy: +/-l racy: +/-l ector. Out _l de: On. CV control by gnal. Open	uracy and e. Accura e. Accura 0.5% of ra 0.5% of ra put On: Or mode: Of electrical collector.	linearity: -ccy and line ccy and line ccy and line ted Vout. ted lout. n. Output C ff. Maximu signal or c Remote: O	+/-0.4% of arity: +/- earity: +/- earity: +/- off: Off. Ma m Voltage dry contact in. Local: (0.5% of ra 0.5% of ra aximum Vo 30V, Ma t. Remote	ut. ated Vout. ated lout. bitage: 30v ximum Sir : 0~0.6V um Voltage	nk Current: or short. L : 30V, Max	10mA. ocal: 2~3 imum Sinl	30V or ope	en.
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 Analogue control 4. LOCAL/REMOTE Analogue signal 5. ENABLE/DISABLE signal		0~100% 0~100% 0~5V or 0~5V or Power sup CV/CC Me Enable/Di Analogue Enable/Di	, 0~5/10 , 0~5/10 0~10V, u 0~10V, u opply outpu onitor. Op sable ana programm sable PS	Kohm full Kohm full user select user select ut monitor. en collect logue prog ing control output by	scale, use scale, use able. Accu able. Accu Open coll or. CC moo gramming I monitor si electrical s	r selectabl r selectabl racy: +/-l racy: +/-l ector. Out _l de: On. CV control by gnal. Open ignal or di	uracy and e. Accura e. Accura 0.5% of ra 0.5% of ra put On: Or mode: Of electrical collector. ry contact	linearity: - cy and line cy and line cy and line ted Vout. ted lout. n. Output C ff. Maximu signal or c Remote: 0	+/-0.4% of arity: +/- earity: +/- earity: +/- off: Off. Ma m Voltage dry contac in. Local: C or short, 2	aximum Vo aximum Vo 30V, Ma t. Remote 17 Maximu 2-30V or	ut. ated Vout. ated lout. bltage: 30v ximum Sir : 0~0.6V um Voltage open. User	nk Current: or short. L : 30V, Max r selectabl	10mA. ocal: 2~3 imum Sinl e logic.	30V or ope	en.
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 Analogue control 4. LOCAL/REMOTE Analogue signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control		0~100% 0~5V or 0~5V or 0~5V or Power sup CV/CC M. Enable/Di Analogue Enable/Di Enable/Di	, 0~5/10 , 0~5/10 0~10V, u 0~10V, u pply outpu onitor. Op sable ana programm sable PS sable PS	Kohm full Kohm full user select user select ut monitor. en collect logue prog ining control output by output by	scale, use scale, use able. Accu able. Accu Open coll or. CC mo gramming I monitor si electrical s electrical s	r selectabli r selectabli racy: +/-i racy: +/-i ector. Out _i de: On. CV control by gnal. Open ignal or di	uracy and e. Accura e. Accura o. 5% of ra 0.5% of ra put On: Or mode: Of electrical collector. ry contact ry contact	linearity: - cy and line cy and line cy and line ted Vout. ted lout. n. Output C if. Maximu signal or c Remote: 0 0 - 0.6V c Remote: 6	+/-0.4% of arity: +/- earity: +/- earity: +/- off: Off. Ma m Voltage clry contac in. Local: C or short, 2 0~0.6V o	0.5% of ra 0.5% of ra aximum Vo 30V, Ma t. Remote 0ff. Maximu -30V or or short. Lo	ut. ated Vout. ated lout. bitage: 30V ximum Sir : 0~0.6V i um Voltage open. User	nk Current: or short. L : 30V, Max r selectabl OV or open	10mA. ocal: 2~3 imum Sinl e logic. i.	30V or ope	en.
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 Analogue control 4. LOCAL/REMOTE Analogue signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals		0~100% 0~5V or 0~5V or Power sup CV/CC M Enable/Di Analogue Enable/Di Two open	, 0~5/10 , 0~5/10 0~10V, u 0~10V, u pply outpu onitor. Op sable ana programm sable PS sable PS drain pro	Kohm full Kohm full user select user select ut monitor. en collect logue prog ing control output by output by grammabl	scale, use scale, use able. Accuable. Accuable. Accuable. Accuable. Accuable. Accuable. Accuable or. CC moogramming I monitor si electrical selectrical selectrica	r selectabli r selectabli racy: +/-i racy: +/-i ector. Out _i de: On. CV control by gnal. Open ignal or di ignal or di Maximum	uracy and e. Accurae e. Accurae e. Accurae o.5% of ra o.5% of ra out On: Or mode: Of electrical collector. ry contact ry contact voltage 2:	linearity: -cy and line cy and line cy and line ted Vout. ted lout. n. Output C ff. Maximu signal or c Remote: 0 0 -0.6V (Remote: 6	+/-0.4% of arity: +/- earity: +/- earity: +/- earity: +/- earity: -/- earity:	0.5% of ra 0.5% of ra aximum Vo 30V, Ma t. Remote Off. Maximu 30V or or short. Lo	ut. ated Vout. ated lout. bitage: 30V ximum Siri: 0~0.6V um Voltage open. User cocal: 2~30 mA (Shun	nk Current: or short. L : 30V, Max r selectabl DV or open ited by 27V	10mA. ocal: 2~3 imum Sinl e logic. i. V zener)	80V or ope k Current: 1	en. I OmA.
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 Analogue control 4. LOCAL/REMOTE Analogue signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control		0~100% 0~5V or 0~5V or 0~5V or Power sup CV/CC M Enable/Di Analogue Enable/Di Two open Maximum	, 0~5/10 , 0~5/10 0~10V, u 0~10V, u pply outpu onitor. Op sable ana programm sable PS sable PS drain pro	Kohm full Kohm full user select user select ut monitor. en collect logue prog ing contro output by output by grammabl i input volt	scale, use scale, use able. Accu able. Accu Open coll or. CC moogramming I monitor si electrical selectrical se signals. age = 0.8	r selectabli r selectabli racy: +/-i racy: +/-i ector. Out _i de: On. CV control by gnal. Open ignal or di ignal or di Maximum V,Minimui	e. Accurae e. Accurae e. Accurae 0.5% of ra 0.5% of ra put On: Or mode: Of electrical collector. ry contact ry contact voltage 2: m high lev	linearity: - cy and line cy and line ty and line ted Vout. ted lout. n. Output C ff. Maximu signal or c Remote: 0 0 - 0.6 V c Remote: 0 5 V, Maxim vel input vo	+/-0.4% of arrity: +/- off: Off. Ma m Voltage dry contact n. Local: 0 or short, 2 0~0.6V of uum sink colltage = 2	0.5% of ra 0.5% of ra aximum Vo 30V, Ma t. Remote Off. Maximu 30V or or short. Lo	ut. ated Vout. ated lout. bitage: 30V ximum Sir : 0~0.6V i um Voltage open. User	nk Current: or short. L : 30V, Max r selectabl DV or open ited by 27V	10mA. ocal: 2~3 imum Sinl e logic. i. V zener)	80V or ope k Current: 1	en. I OmA.
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 Analogue control 4. LOCAL/REMOTE Analogue signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals		0-100% 0-100% 0-5V or 0-5V or Power sup CV/CC M Enable/Di Analogue Enable/Di Two open Maximum tw=10us	, 0~5/10, 0~5/10, 0~5/10, 0~10V, upply output onitor. Opsable and programm sable PS sable PS drain pro how level minimum	Kohm full Kohm full user select user select ut monitor. en collect logue prog ing control output by output by grammabl i input volt n. Tr,Tf=1	scale, use scale, use able. Accu able. Accu open coll or. CC mongramming I monitor si electrical se e signals. age = 0.8 us Maximu.	r selectabli r selectabli racy: +/-l racy: +/-l ector. Out _l de: On. CV control by gnal. Open ignal or di ignal or di Maximum V,Minimum, Min de	e. Accurate. Accurate. Accurate. Accurate. Accurate. Accurate. Accurate. Accurate. Accurate. Accurate accurate accurate. Accurate accurate accurate accurate. Accurate	linearity: -cy and line cy and line cy and line ted Vout. ted lout. n. Output C ff. Maximu signal or c Remote: 0 0 -0.6V (Remote: 6	+/-0.4% of arrity: +/- off: Off. Ma m Voltage dry contact n. Local: 0 or short, 2 0~0.6V of uum sink colltage = 2	0.5% of ra 0.5% of ra aximum Vo 30V, Ma t. Remote Off. Maximu 30V or or short. Lo	ut. ated Vout. ated lout. bitage: 30V ximum Siri: 0~0.6V um Voltage open. User cocal: 2~30 mA (Shun	nk Current: or short. L : 30V, Max r selectabl DV or open ited by 27V	10mA. ocal: 2~3 imum Sinl e logic. i. V zener)	80V or ope k Current: 1	en. I OmA.
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 Analogue control 4. LOCAL/REMOTE Analogue signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal	out)	0-100% 0-5V or 0-5V or 0-5V or Power sup CV/CC M. Enable/Di Analogue Enable/Di Two open Maximum tw=10us By electri	, 0~5/10, 0~5/10, 0~5/10, 0~10V, upply output onitor. Opsable ana programm sable PS sable PS drain pro how level minimum cal Voltag	Kohm full Kohm full User select ut monitor. en collect logue prog ing control output by output by grammabl input volt n. Tr,Tf=1 e: 0~0.6\	scale, use scale, use able. Accuable. Accuable	r selectabling reselectabling reselectabling reselectabling research. Francy: +/-I ector. Outple: On. CV control by gnal. Openignal or disignal or dis	e. Accurate. Accurate. Accurate. Accurate. Accurate. Accurate. Accurate. Accurate. Accurate. Accurate accurate accurate. Accurate accurate accurate accurate. Accurate	linearity: - cy and line cy and line ty and line ted Vout. ted lout. n. Output C ff. Maximu signal or c Remote: 0 0 - 0.6 V c Remote: 0 5 V, Maxim vel input vo	+/-0.4% of arrity: +/- off: Off. Ma m Voltage dry contact n. Local: 0 or short, 2 0~0.6V of uum sink colltage = 2	0.5% of ra 0.5% of ra aximum Vo 30V, Ma t. Remote Off. Maximu 30V or or short. Lo	ut. ated Vout. ated lout. bitage: 30V ximum Siri: 0~0.6V um Voltage open. User cocal: 2~30 mA (Shun	nk Current: or short. L : 30V, Max r selectabl DV or open ited by 27V	10mA. ocal: 2~3 imum Sinl e logic. i. V zener)	80V or ope k Current: 1	en. I OmA.
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 Analogue control 4. LOCAL/REMOTE Analogue signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals	out)	0-100% 0-5V or 0-5V or 0-5V or Power sup CV/CC M. Enable/Di Analogue Enable/Di Two open Maximum tw=10us By electri	, 0~5/10, 0~5/10, 0~5/10, 0~10V, upply output onitor. Opsable ana programm sable PS sable PS drain pro how level minimum cal Voltag	Kohm full Kohm full User select ut monitor. en collect logue prog ing control output by output by grammabl input volt n. Tr,Tf=1 e: 0~0.6\	scale, use scale, use able. Accu able. Accu open coll or. CC mongramming I monitor si electrical se e signals. age = 0.8 us Maximu.	r selectabling reselectabling reselectabling reselectabling research. Francy: +/-I ector. Outple: On. CV control by gnal. Openignal or disignal or dis	e. Accurate. Accurate. Accurate. Accurate. Accurate. Accurate. Accurate. Accurate. Accurate. Accurate accurate accurate. Accurate accurate accurate accurate. Accurate	linearity: - cy and line cy and line ty and line ted Vout. ted lout. n. Output C ff. Maximu signal or c Remote: 0 0 - 0.6 V c Remote: 0 5 V, Maxim vel input vo	+/-0.4% of arrity: +/- off: Off. Ma m Voltage dry contact n. Local: 0 or short, 2 0~0.6V of uum sink colltage = 2	0.5% of ra 0.5% of ra aximum Vo 30V, Ma t. Remote Off. Maximu 30V or or short. Lo	ut. ated Vout. ated lout. bitage: 30V ximum Siri: 0~0.6V um Voltage open. User cocal: 2~30 mA (Shun	nk Current: or short. L : 30V, Max r selectabl DV or open ited by 27V	10mA. ocal: 2~3 imum Sinl e logic. i. V zener)	80V or ope k Current: 1	en. I OmA.
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 Analogue control 4. LOCAL/REMOTE Analogue 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	out)	0-100% 0-5V or 0-5V or 0-5V or Power sup CV/CC M. Enable/Di Analogue Enable/Di Two open Maximum tw=10us By electri 4-5V=C	, 0~5/10, 0~5/10, 0~5/10, 0~5/10, 0~10V, u 0~10V, u pply outpu onitor. Op sable ana programm sable PS sable PS drain pro a low level minimum cal Voltag 0K, 0V (50	Kohm full Kohm full user select user select ut monitor, en collect logue prog ing control output by output by grammabl input volt n. Tr,Tf=1 e: 0~0.6\ 000hm imp	scale, use scale, use able. Accuable. Accuable	r selectabl r selectabl racy: +/-i racy: +/-i ector. Out de: On. CV control by gnal. Open ignal or di ignal or di Maximum V,Minimui m, Min de or dry cont Fail	uracy and e. Accura- e. Accura- e. Accura- D.5% of ra D.5% of ra put On: Or mode: Of electrical collector- ry contact ry contact voltage 2: m high lev elay betwee act.	linearity: - cy and line cy and line ty and line ted Vout. ted lout. n. Output C ff. Maximu signal or c Remote: 0 0 - 0.6 V c Remote: 0 5 V, Maxim vel input vo	+/-0.4% of earity: +/- earity: -/- earity:	aximum Vo aximum	ut. ated Vout. ated lout. bitage: 30V ximum Siri: 0~0.6V um Voltage open. User cocal: 2~30 mA (Shun	nk Current: or short. L : 30V, Max r selectabl DV or open ited by 27V	10mA. ocal: 2~3 imum Sinl e logic. i. V zener)	80V or ope k Current: 1	en. I OmA.
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 Analogue control 4. LOCAL/REMOTE Analogue 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		0-100% 0-5V or 0-5V or 0-5V or Power sup CV/CC M. Enable/Di Analogue Enable/Di Two open Maximum tw=10us By electri 4-5V=C	, 0~5/10, 0~5/10, 0~5/10, 0~5/10, 0~10V, u 0~10V, u 0ply outpu onitor. Op sable ana programm sable PS sable PS drain pro low level minimum cal Voltag 0K, 0V (50	Kohm full Kohm full User select ut monitor. en collect logue prog ing control output by output by grammabl input volt n. Tr,Tf=1 e: 0~0.6\ 000hm imp	scale, use scale, use able. Accuable. Accuable	r selectabl r selectabl racy: +/-i racy: +/-i ector. Out de: On. CV control by gnal. Open ignal or di ignal or di Maximum V,Minimui m, Min de or dry cont Fail	uracy and e. Accura- e. Accura- e. Accura- D.5% of ra D.5% of ra put On: Or mode: Of electrical collector- ry contact ry contact voltage 2: m high lev elay betwee act.	linearity: - cy and line cy and line cy and line cy and line ted Vout. ted lout. n. Output C ff. Maximu signal or c Remote: 0 0 ~ 0.6V c Remote: 1 5V, Maxim vel input vc en 2 pulse	+/-0.4% of earity: +/- earity: -/- earity:	aximum Vo aximum	ut. ated Vout. ated lout. bitage: 30V ximum Siri: 0~0.6V um Voltage open. User cocal: 2~30 mA (Shun	nk Current: or short. L : 30V, Max r selectabl DV or open ited by 27V	10mA. ocal: 2~3 imum Sinl e logic. i. V zener)	80V or ope k Current: 1	en. I OmA.
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 Analogue control 4. LOCAL/REMOTE Analogue 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% 0-5V or 0-5V or 0-5V or 0-5V or Power sup CV/CC M. Enable/Di Analogue Enable/Di Two open Maximum tw=10us By electri 4-5V=C	, 0~5/10, 0~5/10, 0~5/10, 0~5/10, 0~10V, u 0~10V, u 0~10V, u pply outpu onitor. Op sable ana programm sable PS sable PS drain pro a low level minimum cal Voltag 0K, 0V (50 Up to fou vith Factor	Kohm full Kohm full User select ut monitor. en collect logue prog ing control output by output by grammabl input volt n. Tr,Tf=1 e: 0~0.6\ 000hm imp r (4) ident y	scale, use scale, use able. Accuable. Accuable	r selectabl r selectabl racy: +/-i racy: +/-i racy: +/-i ector. Out de: On. CV control by gnal. Open ignal or di ignal or di Maximum V,Minimum m, Min de or dry cont Fail nits. For m	uracy and e. Accura- e. Accura- e. Accura- 0.5% of ra 0.5% of ra put On: Or mode: Of electrical collector- ry contact ry contact voltage 2: m high lev elay betwee act.	linearity: - cy and line cy and line cy and line cy and line ted Vout. ted lout. n. Output C ff. Maximu signal or c Remote: 0 0 ~ 0.6V c Remote: 1 5V, Maxim vel input vc en 2 pulse	+/-0.4% of earity: +/- earity: -/- earity:	aximum Vo 30V, Ma 4. Remote Off. Maximu 2-30V or or short. Lo urrent 100 2.5V, Maxim	ut. ated Vout. ated lout. bitage: 30V ximum Sir : 0~0.6V um Voltage open. User ocal: 2~30 mA (Shun	nk Current: or short. L : 30V, Max r selectabl DV or open ited by 27V	10mA. ocal: 2~3 imum Sinl e logic. i. V zener)	80V or ope k Current: 1	en. I OmA.
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 Analogue control 4. LOCAL/REMOTE Analogue 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% 0-5V or 0-5V or 0-5V or 0-5V or Power sup CV/CC M. Enable/Di Analogue Enable/Di Two open Maximum tw=10us By electri 4-5V=C	, 0~5/10, 0~5/10, 0~5/10, 0~5/10, 0~10V, u 0~10V, u 0~10V, u 0ply outpu onitor. Op sable ana programm sable PS sable PS drain pro a low level minimum cal Voltag 0K, 0V (50 Up to fou vith Factor poplies can	Kohm full Kohm full User select ut monitor. en collect logue prog ing control output by output by grammabl input volt n. Tr,Tf=1 e: 0~0.6\ 000hm imp r (4) ident y u be conne	scale, use scale, use able. Accuable. Accuable	r selectabl r selectabl r selectabl racy: +/-i racy: +/-i racy: +/-i ector. Out de: On. CV control by gnal. Open ignal or di ignal or di ignal or di Maximum V,Minimum m, Min de or dry cont iFail sy chain to	e. Accura- e. Accura- e. Accura- e. Accura- 0.5% of ra 0.5% of ra 0.5% of ra collector. r mode: Of electrical collector. ry contact ry contact voltage 2: m high levelaly between act.	linearity: - cy and line cy and line cy and line ted Vout. ted lout. n. Output C ff. Maximu signal or c Remote: 0 0 ~ 0.6V c Remote: 1 65V, Maxim vel input v cen 2 pulse	+/-0.4% of earity: +/- earity: -/- earity:	aximum Vo 30V, Ma 4. Remote Off. Maximu 2-30V or or short. Lo urrent 100 2.5V, Maxi a Factory. d turn-off.	ut. ated Vout. ated lout. bitage: 30V ximum Sir : 0~0.6V um Voltage open. User ocal: 2~30 mA (Shun	ak Current: or short. L. : 30V, Max r selectabl OV or open sted by 27V level inpu	10mA. ocal: 2~3 imum Sinl e logic. i. V zener)	80V or ope k Current: 1	en. I OmA.
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Specifications GENESYS+™ GSP (15kW)

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
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	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	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.	200V mod	dels: 170~	~265Vac.	47~63Hz	(Covers 2	00/230Va	c)						
, , , , , , , , , , , , , , , , , , ,		3-Phase,	400V mod	dels: 342~ dels: 342~	-460Vac,	47~63Hz	(Covers 3	80/400/41	(5Vac)	0/480Vac)					
2. Maximum Input current at 100% load		3-Phase,	200V mor	dels: 52.5A	A @ 200V	ac 3-Pha	se, 400V	nodels: 27	7.6A @ 38	30Vac 3-	Phase, 48	0V model	s: 27.6A @	@ 380Vac	
3. Power Factor (Typ)		0.94@2	200/380Va	ac, rated ou	utput powe	er.									
4. Efficiency (Typ) (*5) (*22)	%	89(*21)		91	91	91	91	91	91	91	91	92	92	91	92
5. Inrush current (*6)	A	Less than			01	01	01	01	01	01	01	102	102	101	02
· /		< 5%	IJUA												
6. AC line phase imbalance	%				40	=0		00	400	4=0	000	000	400	=00	000
Constant Voltage Mode	V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1. Max. Line regulation (*7)		0.01% of	rated outp	ut voltage											
2. Max. Load regulation (*8)		0.01% of	rated 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	ed output v	voltage, fo	llowina 30	minutes v	varm-up.							
6. Temperature stability				t over 8hrs	-				Constant I	ine load 8	ι temn				
											x tomp.				
7. Warm-up drift				rated outp							5	6	- E	6	6
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: Full load (*11)	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	Time for o	output volt	age to reco	over withir	0.5% of i	ts rated ou	itput for a	load chang	ge 10~90	% of rated	output cu	urrent.		
				0∼100%, I										100V.	
12. Start 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)				out current.											
2. Max. Load regulation (*13)				out current.											
, ,						250	100	100	70	45	A.E.	15	1.5	10	10
3. Ripple r.m.s. @ 10% rated voltage (*14)	mA	2000	1200	600	300	250	180	100	70		45		15	12	10
4. Ripple r.m.s. @ 100% rated voltage (TA25°C) (*14)		1200	700	300	150	130	90	60	35	23	23	7.5	7.5	8	6
5. Temperature coefficient	PPM/°C	10V~100	JV: 100PP	M/°C, 150)V~600V:	70PPM/°	C from rate	ed output o	current, fol	lowing 30	minutes v	varm-up.			
6. Temperature stability		0.01% of	rated lout	over 8hrs.	. interval fo	llowing 30	0 minutes	warm-up.	Constant I	ine, load 8	& tempera	ture.			
7. Warm-up drift		10V~100	JV: Less th	an +/-0.2	25%, 150V	~600V: Le	ess than +	/-0.15% o	f rated out	put current	over 30 n	ninutes fol	lowing pov	ver on.	
Analogue Programming and Monitoring (Iso	lated fro	m the Out	put)												
Vout voltage programming				r 0∼10V, ι	user selec	table. Acc	uracy and	linearity: -	+/-0.15%	of rated Vo	out.				
2. lout voltage programming (*15)				r 0~10V, ı											
3. Vout resistor programming															
1 0 0				Kohm full s											
4. lout resistor programming (*15)				Kohm full s					arity: +/-	0.5% OI ra	lea lout.				
5. Output voltage monitor (*23)				ıser selecta											
6. Output current monitor (*15) (*23)		0~5V or	0~10V, u	ıser selecta	able. Accu	iracy: +/-	0.5% of ra	ted lout.							
Signals and Controls (Isolated from the Outp	out)														
1. Power supply OK #1 signal		Power su	pply outpu	ıt monitor.	Open coll	ector. Out	nut On∙ Or	Output 0	lff- Off Ma	ximum Vo	Itage: 30V	, Maximu	m Sink Cu	1.40	Α.
		CV/CC M	onitor. Op		00		put on. or	output o	iii. Oii. ivia				iii Oiiii Oui	rrent: 10m.	
2. CV/CC signal		CV/CC Monitor. Open collector. CC mode: On. CV mode: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA.												rrent: 10m.	
-							mode: Of	f. Maximui	m Voltage:				10mA.		
CV/CC signal LOCAL/REMOTE Analogue control LOCAL/REMOTE Analogue signal		Enable/Di	isable anal	logue prog	gramming	control by	mode: Of electrical	f. Maximu signal or c	m Voltage: dry contact	. Remote:	0~0.6V	or short. L	10mA. ocal: 2~3	OV or oper	n.
3. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue signal		Enable/Di Analogue	isable anal programm	logue prog ing control	gramming I monitor si	control by gnal. Open	mode: Of electrical collector.	f. Maximu signal or c Remote: 0	m Voltage: dry contact n. Local: 0	. Remote: ff. Maximu	0∼0.6V o m Voltage:	or short. L : 30V, Max	: 10mA. ocal: 2~3 timum Sink	OV or oper	n.
LOCAL/REMOTE Analogue control LOCAL/REMOTE Analogue signal ENABLE/DISABLE signal		Enable/Di Analogue Enable/Di	isable anal programm isable PS (logue prog ing control output by e	gramming I monitor si electrical s	control by gnal. Open signal or d	mode: Of electrical collector. ry contact.	f. Maximum signal or co Remote: 0 0~0.6V co	m Voltage: dry contact n. Local: 0 or short, 2	Remote: ff. Maximu ~30V or c	0~0.6V om Voltage: open. User	or short. L : 30V, Max r selectabl	10mA. ocal: 2~3 timum Sink le logic.	OV or oper	n.
3. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control		Enable/Di Analogue Enable/Di Enable/Di	isable anal programm isable PS (isable PS (logue prog ing control output by e output by e	gramming I monitor si electrical s electrical s	control by gnal. Open signal or d signal or d	mode: Of electrical collector. ry contact.	f. Maximul signal or c Remote: 0 0~0.6V c Remote: 0	m Voltage: dry contact n. Local: O or short, 2 0~0.6V or	Remote: ff. Maximu ~30V or c short. Loo	0~0.6V om Voltage: open. User cal: 2~30	or short. L : 30V, Max r selectabl OV or open	10mA. ocal: 2~3 dimum Sink le logic.	OV or oper	n.
3. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control		Enable/Di Analogue Enable/Di Enable/Di Two open	isable anal programm isable PS (isable PS (drain pro	logue prog ing control output by e output by e grammable	gramming I monitor si electrical s electrical s e signals.	control by gnal. Open signal or d signal or d Maximum	mode: Of electrical collector. ry contact. ry contact. voltage 25	f. Maximum signal or consideration of the Remote: 0 0~0.6V consideration of the Remote: 0 5V, Maxim	m Voltage: dry contact n. Local: 0 or short, 2 0~0.6V or um sink cu	Remote: ff. Maximu ~30V or constructions r short. Locurrent 100i	0~0.6V om Voltage: open. User cal: 2~30 mA (Shun	or short. L 30V, Max selectabl OV or open ted by 27	: 10mA. ocal: 2~3 imum Sink le logic. n. V zener)	OV or oper Current: 10	n. OmA.
LOCAL/REMOTE Analogue control LOCAL/REMOTE Analogue signal ENABLE/DISABLE signal INTERLOCK (ILC) control Programmed signals		Enable/Di Analogue Enable/Di Enable/Di Two open Maximum	isable anal programm isable PS (isable PS (i drain pro i low level	logue prog ing control output by e output by e grammable input volta	gramming I monitor si electrical s electrical s e signals. age = 0.8	control by gnal. Oper signal or d signal or d Maximum V,Minimu	mode: Of electrical collector. ry contact. ry contact. voltage 25 m high lev	f. Maximum signal or consideration of the Remote: 0 Remote: 0 5V, Maximum oel input vo	m Voltage. dry contact n. Local: 0 or short, 2 0~0.6V or um sink cu oltage = 2	Remote: ff. Maximu ~30V or constructions r short. Locurrent 100i	0~0.6V om Voltage: open. User cal: 2~30 mA (Shun	or short. L 30V, Max selectabl OV or open ted by 27	: 10mA. ocal: 2~3 imum Sink le logic. n. V zener)	OV or oper Current: 10	n. OmA.
-		Enable/Di Analogue Enable/Di Enable/Di Two open Maximum	isable anal programm isable PS (isable PS (i drain pro i low level	logue prog ing control output by e output by e grammable	gramming I monitor si electrical s electrical s e signals. age = 0.8	control by gnal. Oper signal or d signal or d Maximum V,Minimu	mode: Of electrical collector. ry contact. ry contact. voltage 25 m high lev	f. Maximum signal or consideration of the Remote: 0 Remote: 0 5V, Maximum oel input vo	m Voltage. dry contact n. Local: 0 or short, 2 0~0.6V or um sink cu oltage = 2	Remote: ff. Maximu ~30V or constructions r short. Locurrent 100i	0~0.6V om Voltage: open. User cal: 2~30 mA (Shun	or short. L 30V, Max selectabl OV or open ted by 27	: 10mA. ocal: 2~3 imum Sink le logic. n. V zener)	OV or oper Current: 10	n. OmA.
LOCAL/REMOTE Analogue control LOCAL/REMOTE Analogue signal ENABLE/DISABLE signal INTERLOCK (ILC) control Programmed signals		Enable/Di Analogue Enable/Di Enable/Di Two open Maximum tw=10us	isable anal programm isable PS d isable PS d drain prod n low level minimum	logue prog ing control output by e output by e grammable input volta	gramming I monitor si electrical s electrical s e signals. age = 0.8 us Maximu	control by gnal. Oper signal or d signal or d Maximum V,Minimu um, Min de	mode: Of electrical collector. ry contact. ry contact. voltage 25 m high lev elay betwe	f. Maximum signal or consideration of the Remote: 0 Remote: 0 5V, Maximum oel input vo	m Voltage. dry contact n. Local: 0 or short, 2 0~0.6V or um sink cu oltage = 2	Remote: ff. Maximu ~30V or constructions r short. Locurrent 100i	0~0.6V om Voltage: open. User cal: 2~30 mA (Shun	or short. L 30V, Max selectabl OV or open ted by 27	: 10mA. ocal: 2~3 imum Sink le logic. n. V zener)	OV or oper Current: 10	n. OmA.
3. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal		Enable/Di Analogue Enable/Di Enable/Di Two open Maximum tw=10us By electri	isable anal programm isable PS (isable PS (drain program) low level minimum cal Voltagi	logue prog ing control output by e output by e grammable input volta n. Tr,Tf=1u	gramming I monitor si electrical s electrical s e signals. age = 0.8 us Maximu	control by gnal. Open signal or d signal or d Maximum V,Minimu um, Min de or dry cont	mode: Of electrical collector. ry contact. ry contact. voltage 25 m high lev elay betwe	f. Maximum signal or consideration of the Remote: 0 Remote: 0 5V, Maximum oel input vo	m Voltage. dry contact n. Local: 0 or short, 2 0~0.6V or um sink cu oltage = 2	Remote: ff. Maximu ~30V or constructions r short. Locurrent 100i	0~0.6V om Voltage: open. User cal: 2~30 mA (Shun	or short. L 30V, Max selectabl OV or open ted by 27	: 10mA. ocal: 2~3 imum Sink le logic. n. V zener)	OV or oper Current: 10	n. OmA.
3. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals		Enable/Di Analogue Enable/Di Enable/Di Two open Maximum tw=10us By electri	isable anal programm isable PS (isable PS (drain program) low level minimum cal Voltagi	logue prog ing control output by e output by e grammable input volta n. Tr,Tf=1u e: 0~0.6V	gramming I monitor si electrical s electrical s e signals. age = 0.8 us Maximu	control by gnal. Open signal or d signal or d Maximum V,Minimu um, Min de or dry cont	mode: Of electrical collector. ry contact. ry contact. voltage 25 m high lev elay betwe	f. Maximum signal or consideration of the Remote: 0 Remote: 0 5V, Maximum oel input vo	m Voltage. dry contact n. Local: 0 or short, 2 0~0.6V or um sink cu oltage = 2	Remote: ff. Maximu ~30V or constructions r short. Locurrent 100i	0~0.6V om Voltage: open. User cal: 2~30 mA (Shun	or short. L 30V, Max selectabl OV or open ted by 27	: 10mA. ocal: 2~3 imum Sink le logic. n. V zener)	OV or oper Current: 10	n. OmA.
3. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue 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		Enable/Di Analogue Enable/Di Enable/Di Two open Maximum tw=10us By electri 4~5V=0	isable anal programm isable PS (isable PS (i drain prod n low level minimum cal Voltago DK, OV (50	logue prog ing control output by e output by e grammable input volta h. Tr,Tf=1u e: 0~0.6V 000hm imp	gramming I monitor si electrical se electrical se e signals. age = 0.8 us Maximu //2~30V (bedance) =	control by gnal. Oper signal or d Maximum V,Minimu um, Min de or dry cont	mode: Of electrical collector. ry contact. ry contact. voltage 2: m high lev elay betwe act.	f. Maximul signal or c Remote: 0 0~0.6V o Remote: 0 5V, Maxim el input vo en 2 pulse	m Voltage: dry contact n. Local: 0 por short, 2 0~0.6V or um sink ct um sink ct sis 1ms.	Remote: ff. Maximu ~30V or cr short. Loo urrent 100i .5V, Maxim	0~0.6V om Voltage: open. User cal: 2~30 mA (Shun	or short. L 30V, Max selectabl OV or open ted by 27	: 10mA. ocal: 2~3 imum Sink le logic. n. V zener)	OV or oper Current: 10	n. OmA.
3. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue 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		Enable/Di Analogue Enable/Di Enable/Di Two open Maximum tw=10us By electri 4~5V=0	isable anal programm isable PS (isable PS (i drain programm) n low level minimum cal Voltago DK, OV (50	logue prog ing control output by e output by e grammable input volta n. Tr,Tf=1u e: 0~0.6V 100hm imp	gramming I monitor si electrical se electrical se e signals. age = 0.8 us Maximu //2~30V (bedance) =	control by gnal. Oper signal or d Maximum V,Minimu um, Min de or dry cont	mode: Of electrical collector. ry contact. ry contact. voltage 2: m high lev elay betwe act.	f. Maximul signal or c Remote: 0 0~0.6V o Remote: 0 5V, Maxim el input vo en 2 pulse	m Voltage: dry contact n. Local: 0 por short, 2 0~0.6V or um sink ct um sink ct sis 1ms.	Remote: ff. Maximu ~30V or cr short. Loo urrent 100i .5V, Maxim	0~0.6V om Voltage: open. User cal: 2~30 mA (Shun	or short. L 30V, Max selectabl OV or open ted by 27	: 10mA. ocal: 2~3 imum Sink le logic. n. V zener)	OV or oper Current: 10	n. OmA.
3. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue 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		Enable/Di Analogue Enable/Di Enable/Di Two open Maximum tw=10us By electri 4~5V=C	isable anal programm isable PS (isable PS (i	logue prog ing control output by e output by e grammable input volta n. Tr,Tf=1L e: 0~0.6V 000hm imp r (4) identi	gramming I monitor si electrical s electrical s e signals. age = 0.8 us Maximu I//2~30V (pedance) =	control by gnal. Oper signal or d Maximum V,Minimu Im, Min de or dry cont Fail	mode: Of electrical collector. ry contact. ry contact. voltage 25 m high levelay between act.	f. Maximun signal or c Remote: 0 0~0.6V (Remote: 0 5V, Maxim el input vo en 2 pulse	m Voltage: dry contact n. Local: 0 n. Local: 0 contact n. Local: 0	. Remote: ff. Maximu ~30V or c r short. Loc urrent 100i .5V, Maxim	0~0.6V om Voltage: open. User cal: 2~30 mA (Shun	or short. L 30V, Max selectabl OV or open ted by 27	: 10mA. ocal: 2~3 imum Sink le logic. n. V zener)	OV or oper Current: 10	n. OmA.
3. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue 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		Enable/Di Analogue Enable/Di Enable/Di Two open Maximum tw=10us By electri 4~5V=C Possible. Consult w Power su	isable anal programm isable PS (isable PS (i	logue prog ing control output by e output by e grammable input volta in. Tr,Tf=1L e: 0~0.6V 000hm imp r (4) identi y	gramming I monitor si electrical s electrical s e signals. age = 0.8 us Maximu ///2~30V (bedance) =	control by gnal. Oper signal or d signal or d Maximum V,Minimu um, Min de or dry cont Fail nits. For m	r mode: Of electrical collector. ry contact. ry contact. voltage 2! m high levelay betwee fact.	f. Maximun signal or c Remote: 0 0~0.6V (Remote: 0 F. V. Remote: 0 F. V. Maxim el input voen 2 pulse	m Voltage: dry contact n. Local: 0 n. Local: 0 contact n. Local: 0	Remote: ff. Maximu ~30V or c r short. Loo urrent 100 i5V, Maxim Factory.	0~0.6V (m Voltage: open. User cal: 2~3C mA (Shun num high	or short. L : 30V, Max r selectabl)V or open ted by 27' level inpu	: 10mA. ocal: 2~3 imum Sink le logic. n. V zener)	OV or oper Current: 10	n. OmA.
3. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue 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		Enable/Di Analogue Enable/Di Enable/Di Two open Maximum tw=10us By electri 4~5V=C Possible. Consult w Power su Limits the	isable anal programm isable PS (isable PS (i	logue prog ing control output by e output by e grammable input volta in Tr, Tf = 1L e: 0~0.6V 000hm imp r (4) identi y be connect	gramming I monitor si electrical se electrical se e signals. age = 0.8 us Maximu (72~30 V obedance) = cted in Da orogramme	control by gnal. Oper signal or d signal or d Maximum V,Minimu Im, Min de or dry cont Fail nits. For m	mode: Of electrical collector. ry contact. ry contact. voltage 2! m high levelay between cact.	f. Maximun signal or c Remote: 0 0 ~ 0.6V (Remote: 0 5V, Maxim el input vo en 2 pulse	m Voltage: m Voltage: n. Local: 0 or short, 2 0 ~ 0.6V or um sink co ltage = 2 s 1ms.	E. Remote: ff. Maximu 30V or c short. Loc urrent 100 5V, Maxim Factory. d turn-off. ation port:	0~0.6V (m Voltage: ppen. User cal: 2~30 mA (Shun num high	or short. L 30V, Max r selectabl DV or open ted by 27 ^t level inpu	10mA. ocal: 2~3 common sink le logic. i. V zener) ut = 5V po	0V or oper Current: 10	n. OmA.
3. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue 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		Enable/Di Analogue Enable/Di Enable/Di Two open Maximum tw=10us By electri 4~5V=C Possible. Consult w Power su Limits the	isable anal programm isable PS (isable PS (i	logue prog ing control output by e output by e grammable input volta in. Tr,Tf=1L e: 0~0.6V 000hm imp r (4) identi y	gramming I monitor si electrical se electrical se e signals. age = 0.8 us Maximu (72~30 V obedance) = cted in Da orogramme	control by gnal. Oper signal or d signal or d Maximum V,Minimu Im, Min de or dry cont Fail nits. For m	mode: Of electrical collector. ry contact. ry contact. voltage 2! m high levelay between cact.	f. Maximun signal or c Remote: 0 0 ~ 0.6V (Remote: 0 5V, Maxim el input vo en 2 pulse	m Voltage: m Voltage: n. Local: 0 or short, 2 0 ~ 0.6V or um sink co ltage = 2 s 1ms.	E. Remote: ff. Maximu 30V or c short. Loc urrent 100 5V, Maxim Factory. d turn-off. ation port:	0~0.6V (m Voltage: ppen. User cal: 2~30 mA (Shun num high	or short. L 30V, Max r selectabl DV or open ted by 27 ^t level inpu	10mA. ocal: 2~3 common sink le logic. i. V zener) ut = 5V po	0V or oper Current: 10	n. OmA.
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Specifications GENESYS+™ GSP (10/15kW)

Protective Functions	٧	10 20	30	40	50	60	80	100	150	200	300	400	500	600
1. Foldback protection		Output shut-dow User presetable											ion.	
2. Over-voltage protection (OVP)		Output shut-dov	n. Reset by	/ AC input re	ecycle in auto	ostart mode	e, by OUTPU	T button, by	rear panel o	r by comm	unication.			
3. Over-voltage programming rang	e V	0.5~12 1~2	4 2~3	6 2~44.1	5-55.125	5~66.1	5 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 accuracy	y	+/-1% of rated	output volta	age										
5. Output under voltage limit (UVL)		Prevents from a	djusting Vo	ut below lim	it. Does not	apply in an	alogue prog	ramming. Pi	reset by fron	t panel or c	ommunicati	on port.		
6. Over temperature protection		Shuts down the	output. Aut	o recovery b	y autostart n	node.								
7. Output under voltage limit (UVL)		Prevents adjustr	ment of Vou	t below limi	t.									
8. Output under voltage protection (UVP)		Prevents adjustr Reset by AC inp								by commu	nication.			
Front Panel														
1. Control functions		Multiple options Vout/lout/Power OVP/UVL/UVP n Protection Func Communication Output ON/OFF. Communication Analogue Contro Analogue Monit	Limit man nanual adju tions - OVP Functions Front Pane Functions of Functions	ual adjust st , UVL,UVP, I - Selection of I Lock Selection of s - Selection	of LAN,IEEE,I of Baud Rate Voltage/res	RS-232,RS , Address, l istive progr	-485,USB o IP and comm ramming, 5V	nunication la 1/10V, 5K/10	anguage.					
2. Display		Vout: 4 digits, a lout: 4 digits, ac												
3. Front Panel Buttons Indications		OUTPUT ON, AL	ARM, PRE	/IEW, FINE,	COMMUNIC	ATION, PRO	OTECTION,C	ONFIGURAT	ION, SYSTE	M, SEQUEN	CER.			
4. Front Panel Display Indications		Voltage, Current Remote (commi								afetstart, Fo	ldback V/I,			
Environmental Conditions														
Operating temperature		0~50°C, 100%	load.											
Storage temperature		-30~85°C												
3. Operating humidity	%	20~90% RH (n	o condensa	tion).										
4. Storage humidity	%	10~95% RH (n	o condensa	tion).										
5. Altitude (*17)		Operating: 1000	Oft (3000m), output curi	rent derating	2%/100m	or Ta deratin	g 1°C/100m	above 2000	m. Non ope	rating: 4000	Oft (12000	lm).	
Mechanical														
1. Cooling		Forced air coolin	ng by interr	al fans. Air t	flow direction	n: from Fro	nt panel to p	ower supply	/ rear					
2. Weight GSP 10kl GSP 15kl		Less than 15.5k Less than 23.5k												
3. Dimensions (WxHxD) GSP 10kl		W: 423, H: 88, I W: 423, H: 88, I W: 423, H: 132. W: 423, H: 132.	D: 640 (Inc 5, D: 441.5	uding busba (Without bu	ars and busb usbars and b	ars cover, a usbars cov	and strain re er),	, ,		0,				
4. Vibration		MIL-810G, meth								0,				
5. Shock		Less than 20G, I	half sine, 1	1mS. Unit is	unpacked.									
Safety/EMC						,				-				
Applicable standards: Safety		UL61010-1, CS	A22.2 No.6	1010-1, IEC	61010-1, El	N61010-1								
1.1 Interface classification		Vout≤50V Mode 60≤Vout≤600V	ls: Output,	J1, J2, J3, J	J4, J5, J6, J7	7, J8 (sense						Non Hazar	dous.	
1.2 Withstand voltage		Vout≤50V Mode 60V≤Vout≤100\ Output & J8 (se Output & J8 (se 100V <vout≤60 Output & J8 (se Output & J8 (se</vout≤60 	els: Input — / Models: I nse) - J1, J nse) - Grou IOV Models nse) - J1, J nse) - Grou	Output & J8 nput — Outpu 2, J3, J4, J5 nd: 1500Vd : Input — Out 2, J3, J4, J5 nd: 2500Vd	(sense), J1, ut & J8 (sens 5, J6, J7 & J c 1min, Inpu tput & J8 (se 5, J6, J7 & J c 1min, Inpu	, J2, J3, J4 se), J1, J2, 9 (commur ense), J1, J 9 (commur tt - Ground:	, J5, J6, J7 J3, J4, J5, nication opti 2835Vdc 1 12, J3, J4, J5 nication opti 2835Vdc 1	& J9 (comm J6, J7 & J9 ons): 850Vd min. 5, J6, J7 and ons): 1275V	nunication op (communica Ic 1min.	otions): 424 ation option	12Vdc 1min, s): 4242Vdc	Input - Gr c 1min,	ound: 2835V	dc 1min.
1.3 Insulation resistance		GSP10kW/15kW												
2. Conducted emission		IEC/EN61204-3												
3. Radiated emission		IEC/EN61204-3	Industrial 6	environment,	Annex H tab	ole H.3 and	H4, FCC P	art 15-A, VC	CI-A					
4. EMC compliance EMC(*18	3)	IEC/EN61204-3	Industrial 6	environment										

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

- * 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: GSP10kW: Derate 10A/1°C above 40°C GSP15kW: Derate 15A/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 power.
- *6: Not including EMI filter inrush current, less than 0.2mS.

- 7. 3-Phase 200V models: 170—265Vac, 3-Phase 400V models: 342—460Vac, 3-Phase 480V models: 342—528Vac. Constant load.
 8. From No-Load to Full-Load, constant input voltage. Measured at the sensing point in Remote Sense.
- *9: For 10V~150V models: Measured with JEITA RC-9131C (1:1) probe
- For 200 600V models: Measured with 100:1 probe.

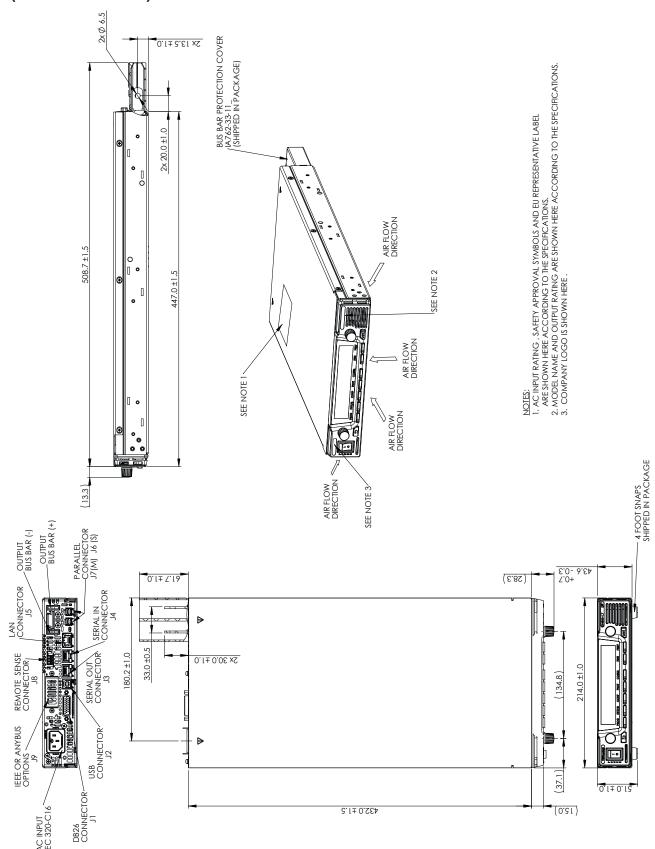
 *10: The maximum voltage on the power supply terminals must not exceed the rated voltage.
- *11: From 10% to 90% or 90% to 10% of Rated Output Voltage, with rated, resistive load
- *12: From 90% to 10% of Rated Output Voltage.
- * 13: For load voltage change, equal to the unit voltage rating, constant input voltage.

- *14: For 10V model the ripple is measured at 2V and rated output current.
- For other models, the ripple is measured at 10% of rated output voltage. B.W 5Hz $\!\sim\!$ 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 Ta 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 40°C.
- *20: GSP10kW For 10V model only: Max. output current for using IEEE is 800A up to 40°C and 900A up to 30°C.
- *20 : GSP15kW For 10V model only: Max. output current for using IEEE is 1200A up to 40°C and 1350A up to 30°C.
- *21: For 10V model only: For 3-Phase 200V efficiency is 88.5% *22: Typ. at Ta=25°C, rated output power.
- *23: For steady state only.

GENESYS[™] Outline Drawings

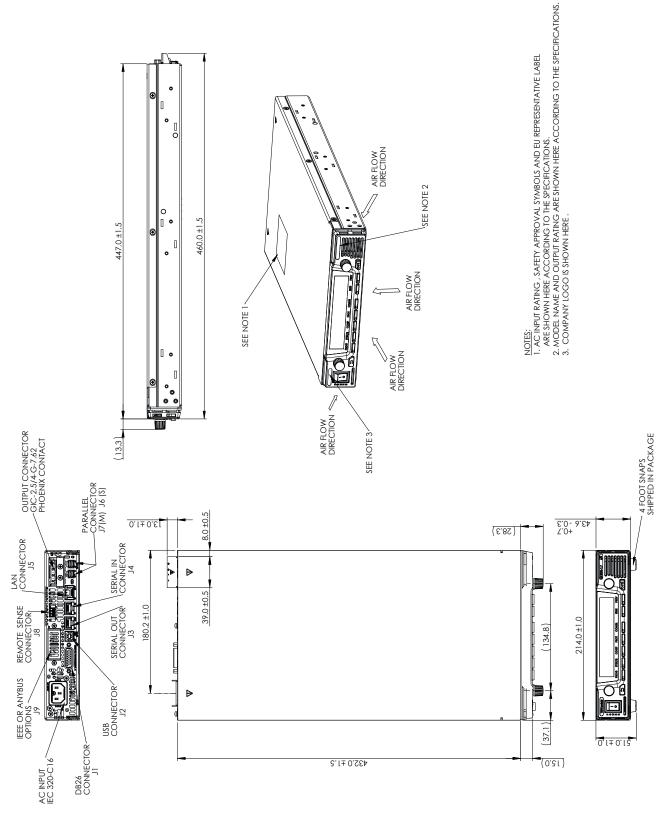
Outline Drawing GENESYS+™ GH (1kW)

(Models 10V-100V)



Outline Drawing GENESYS+™ GH (1kW)

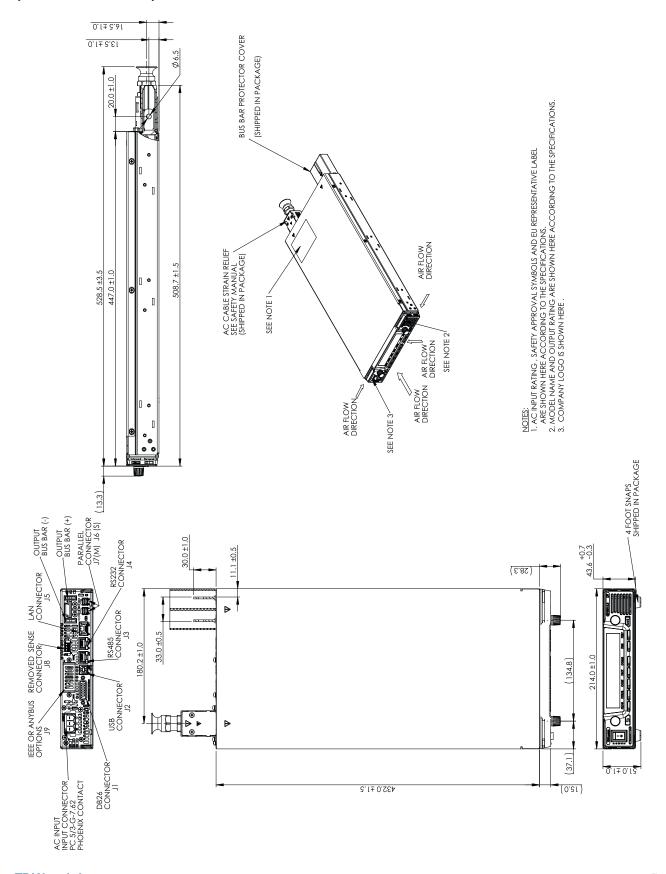
(Models 150V-600V)



33

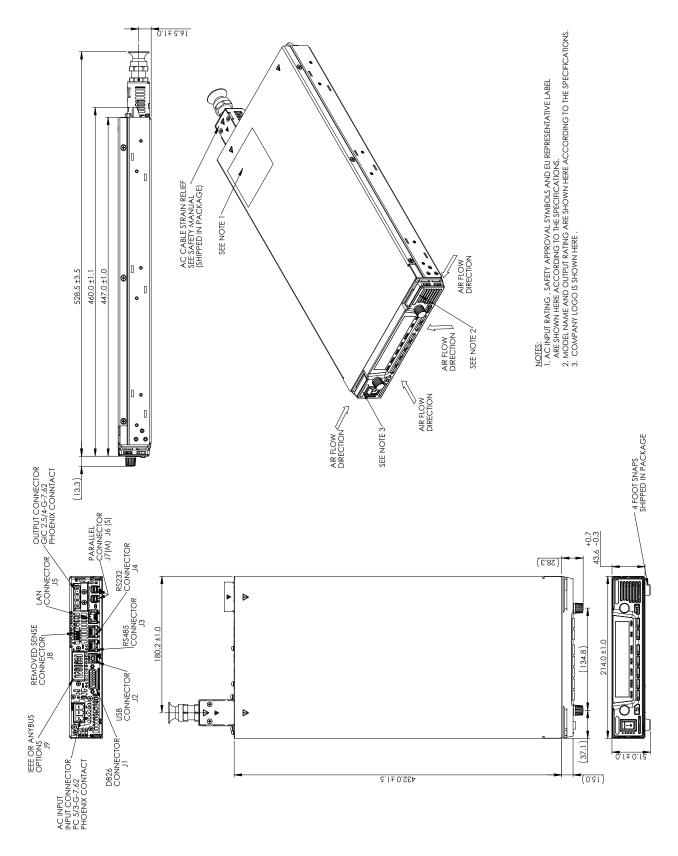
Outline Drawing GENESYS+™ GH (1.5kW)

(Models 10V-100V)



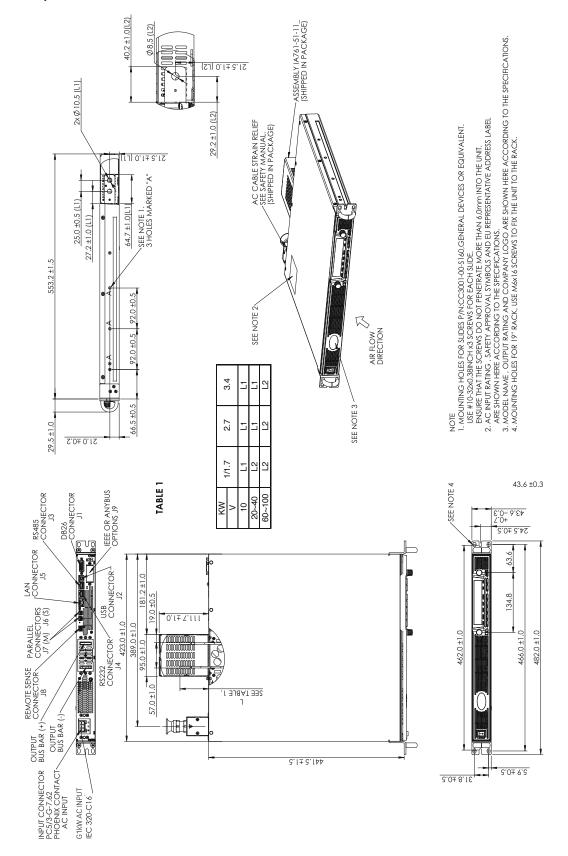
Outline Drawing GENESYS+™ GH (1.5kW)

(Models 150V-600V)



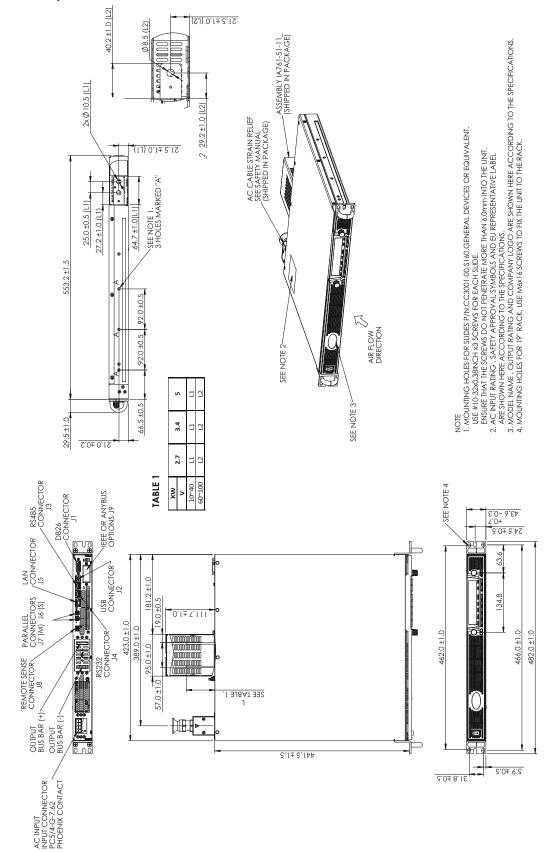
Outline Drawing GENESYS+™ G (1/1.7/2.7/3.4kW)

(1-Phase)

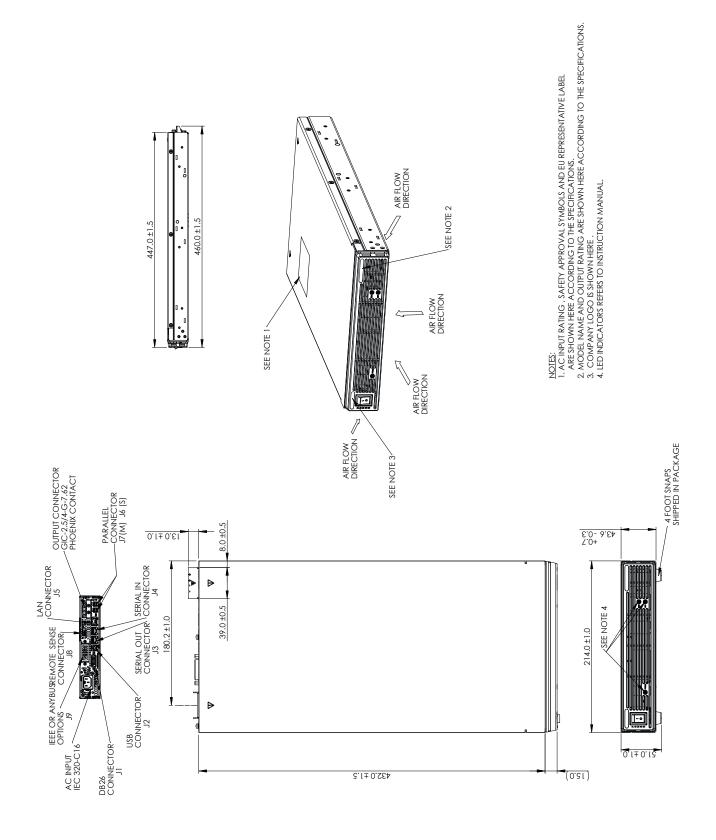


Outline Drawing GENESYS+™ G (2.7/3.4/5kW)

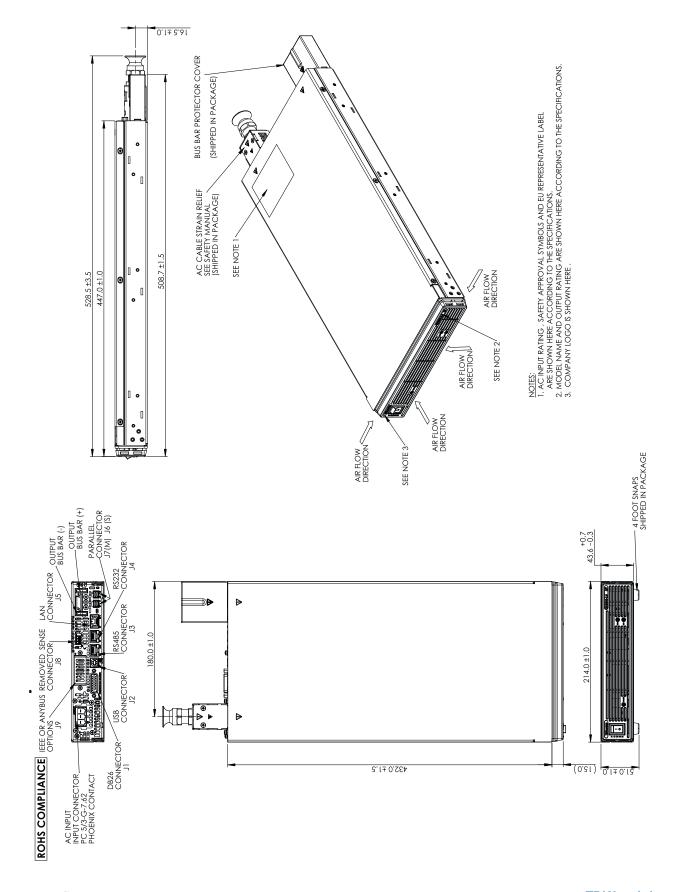




Outline Drawing GENESYS+™ GHB (1kW)

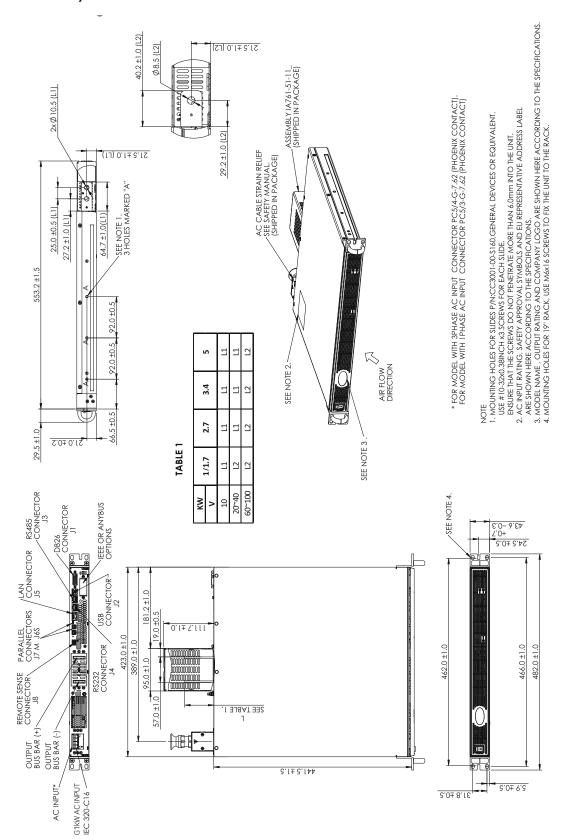


Outline Drawing GENESYS+™ GHB (1.5kW)

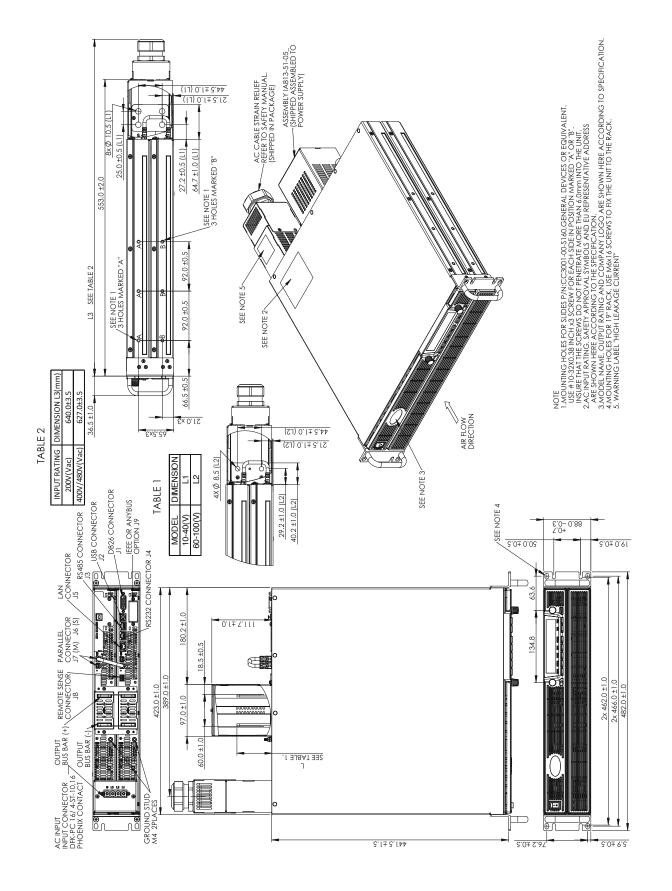


Outline Drawing GENESYS+™ GB (1/1.7/2.7/3.4/5kW)

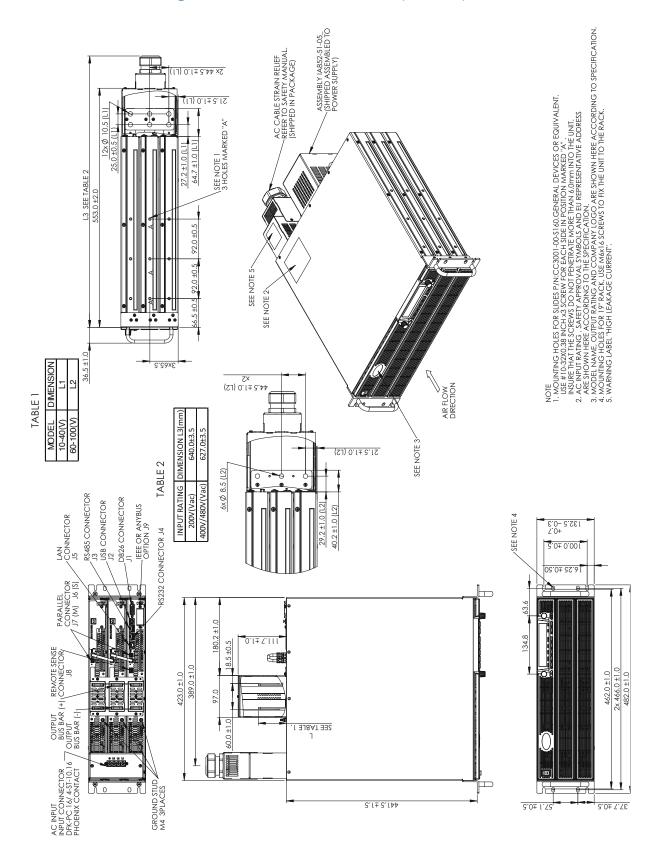
(ATE Version)



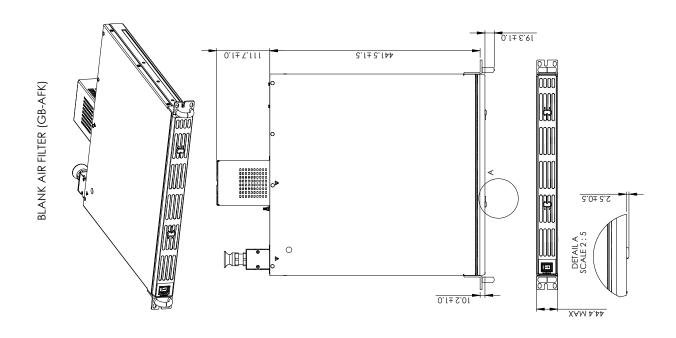
Outline Drawing GENESYS+™ GSP (10kW)

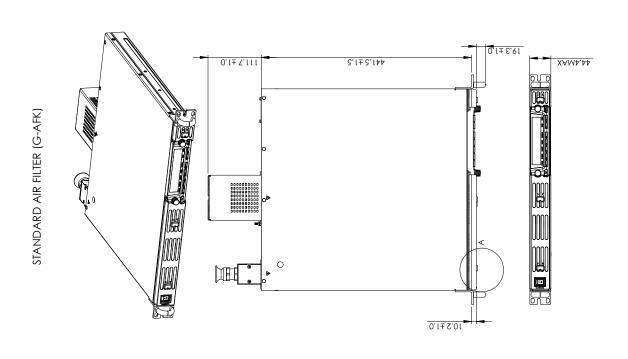


Outline Drawing GENESYS+™ GSP (15kW)



Outline Drawing GENESYS+™ Air Filter Kit







Get in contact to find the best solution to your application.



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