hivolt.de



GENESYS[™]

Programmable Power Supplies



TDK-Lambda Trusted · Innovative · Reliable

GENESYS[™]

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
- 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)



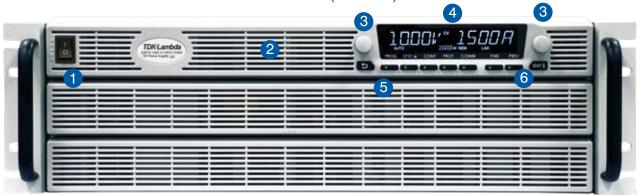
- 1. Input Power ON/OFF Switch
- 2. Air Intake allows zero stacking for maximum system flexibility and power density
- 3. Reliable Detent Encoders for settings and Menu navigation
- 4. High Contrast/Brightness display with wide viewing angle, 16 segment LCD
- 5. Function/Status LEDs: Active modes and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



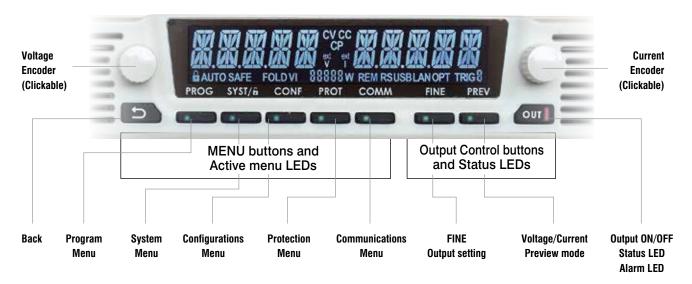
- 1. Input Power ON/OFF Switch
- 2. Air Intake allows zero stacking for maximum system flexibility and power density
- 3. Reliable Detent Encoders for settings and Menu navigation
- 4. High Contrast/Brightness display with wide viewing angle, 16 segment LCD
- 5. Function/Status LEDs: Active modes and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

Rear Panel GENESYS+™ GSP (15kW)

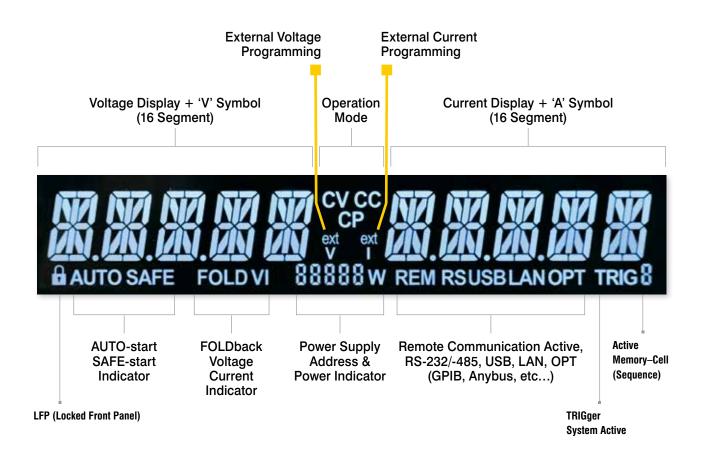


- 1. Isolated Analogue Programming, Monitoring and other control connector (DB26 Female)
- 2. USB Interface connector (Type B)
- 3. RS-232/RS-485 IN/OUT Remote Digital Interface (RJ-45 type) for Multi-Drop connection
- 4. LAN (LXI 1.5) Interface connector (RJ-45 type with LAN status indicators)
- 5.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

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).

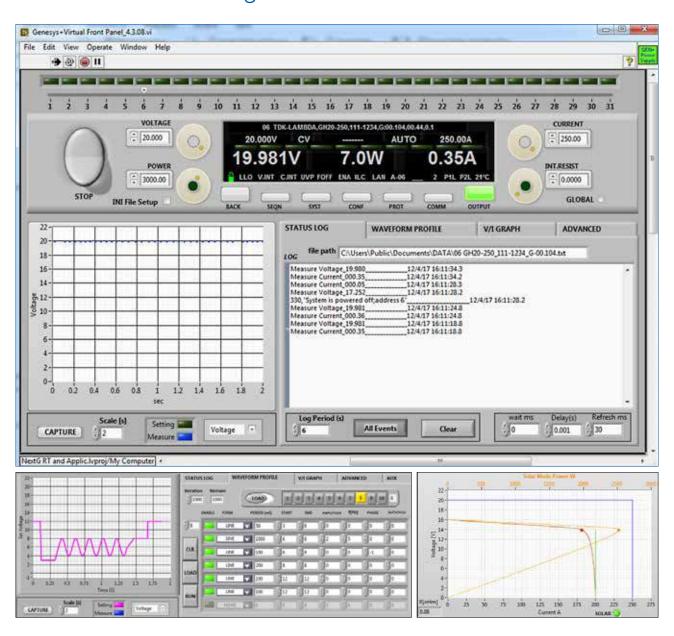
GENESYS[™] User Interface

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

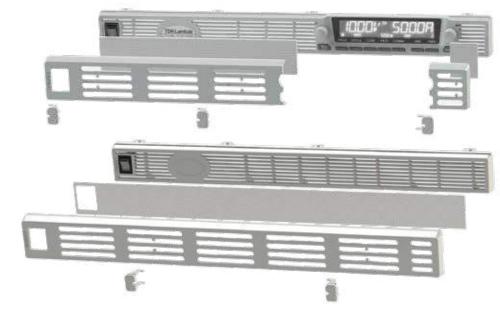


GENESYS[™] Air Filter Kit

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
- Storage Temperature Range: -40°C to +85°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	iB (Blank Front Par	nel Display)		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	*	*	*	*	*

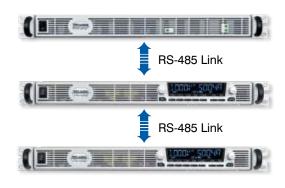
Multi-Drop Remote Programming via Communication Interface

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**

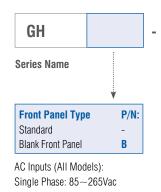
Models 1kW

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



10 - 150	-	_		-	
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Output Voltage

 $(0 \sim 10V)$

Interface **Options**

AC Cable Options (only for 1kW)

Accessories Options

interface uptions (Factory Installed)
LAN (LXI 1.5 compliant with Multi-Drop capability)
USB 2.0 compliant with Multi-Drop capability
RS-232/RS-485

Output Current

 $(0\sim150A)$

Isolated Analogue Program/Monitor Interface (5V/10V Pgm/Mon with 600V isolation)

Interface Options (Optional) IEEE (488.2 & SCPI compliant with Multi-Drop capability installed) Modbus-TCP

P/N:

IEEE

MDBS

ECAT

AC Cable Options 1kW only P/N: Europe North America Japan China

Middle East **Accessories Options** Printed User Manual (User Manual & GUI on website) Bus Paralleling Cable

P/N: Μ Р

P/N:

Ε

U

J

C

P/N:

GH/RM

Accessories Rack Mounitng applications

EtherCat

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

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

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









Models GENESYS+™ G (1/1.7kW)

Models 1kW

G100-10

G150-7

G300-3.5

G600-1.7

Model Voltage [V] Current [A] Power [W] G10-100 0~10 $0 \sim 100$ 1000 G20-50 0~20 0~50 1000 G30-34 $0\sim30$ $0\sim34$ 1020 G40-25 $0 \sim 40$ $0\sim25$ 1000 0~17 G60-17 $0 \sim 60$ 1020 G80-12.5 0~80 0~12.5 1000

0~10

0~7

 $0 \sim 3.5$

 $0 \sim 1.7$

1000

1050

1050

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

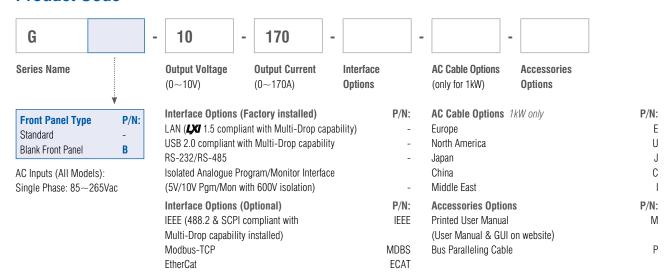
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 $0 \sim 100$

 $0 \sim 150$

 $0 \sim 300$

0~600



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)

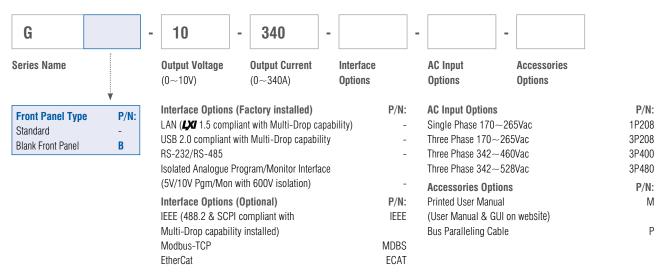
Models 2.7kW

Model	Voltage [V]	Current [A]	Power [W]
G10-265	0~10	0~265	2650
G20-135	0~20	0~135	2700
G30-90	0~30	0~90	2700
G40-68	0~40	0~68	2720
G60-45	0~60	0~45	2700
G80-34	0~80	0~34	2720
G100-27	0~100	0~27	2700
G150-18	0~150	0~18	2700
G300-9	0~300	0~9	2700
G600-4.5	0~600	0~4.5	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



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

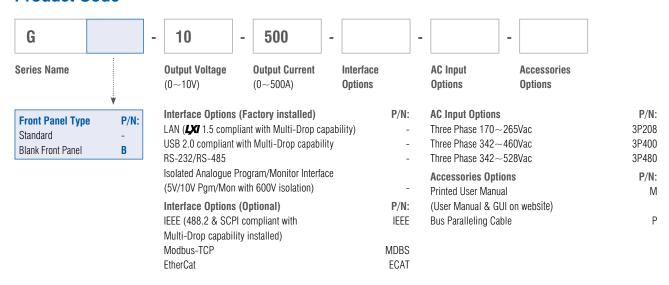
4. User Manual		
Printed User Manual		G/M

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	
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)

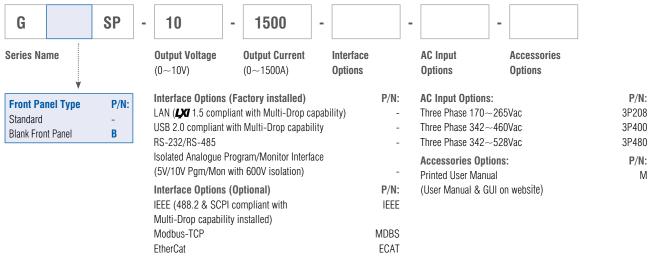
Models 10kW

Model	Voltage [V]	Current [A]	Power [W]	
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 [W]
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

J. USCI Mallua		
Printed User N	nual	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	, 47∼63Hz, S	ingle 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, rated	output power	•					
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)A								
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 f	rom rated ou	tput voltage, fo	llowing 30 m	nutes warm-	Jp.				
6. Temperature stability		0.01% of rat	ed Vout over	8hrs interval f	ollowing 30 m	inutes warm-	up. Constant	line, load & te	emp.		
7. Warm-up drift		Less than 0.	01% of rated	output voltage	+2mV over 3	0 minutes fo	llowing 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			recover withi							0000
11. Hansient response time	1110									models above	100V.
12. Start up delay	Sec	Less than 6									
13. Hold-up time	mS		al, rated outp	ut nower							
Constant Current Mode	V	10	20	30	40	60	80	100	150	300	600
1. Max. Line regulation (*6)				rrent. +2mA	40	00	00	100	100	300	000
2. Max. Load regulation (*9)				rrent. +5mA							
3. Ripple r.m.s. @ rated voltage. B.W 5Hz~1MHz. (*13)	mA	≤420	eu output cu ≤160	≤100	≤60	≤50	≤30	≤20	≤10	≤8	≤5
4. Temperature coefficient	PPM/°C	10V~100V							≥10	≥0	20
4. Temperature coefficient	PPIVI/ C			°C from rated C from rated o							
5. Temperature stability				8hrs. interval f					mnoraturo		
					ullowing 30 II		•		•		
				than / 0 0E	V of roted out	out ourront or		fallowing no			
o. vvaiii-up uiiii					% of rated outp						
·		150V~600\		than +/-0.25 +/-0.15% of r							
Analogue Programming and Monitoring (Isolate	d from th	150V~600\ e Output)	/: Less than	+/-0.15% of r	ated output cu	rrent over 30	minutes follo	wing power o	n.		
Analogue Programming and Monitoring (Isolate 1. Vout voltage programming	d from th	150V~600\ e Output) 0~100%, 0	/: Less than ~5V or 0~1	+/-0.15% of r	ated output cu	rrent over 30 cy and lineari	minutes follow ty: +/-0.15%	wing power o	n.		
Analogue Programming and Monitoring (Isolate 1. Vout voltage programming 2. lout voltage programming (*14)	ed from th	150V~600\ e Output) 0~100%, 0 0~100%, 0	/: Less than ~5V or 0~1 ~5V or 0~1	+/-0.15% of r OV, user selection	ated output cu stable. Accura stable. Accura	rrent over 30 cy and lineari cy and lineari	ty: +/-0.15% ty: +/-0.4% c	of rated Vout	n.		
Analogue Programming and Monitoring (Isolate 1. Vout voltage programming 2. lout voltage programming (*14) 3. Vout resistor programming	ed from th	150V~600\ e Output) 0~100%, 0 0~100%, 0 0~100%, 0	~5V or 0~1 ~5V or 0~1 ~5V or 0~1 ~5/10Kohm	+/-0.15% of r OV, user select OV, user select full scale, use	ated output cu stable. Accura stable. Accura er selectable. A	rrent over 30 cy and lineari cy and lineari Accuracy and	minutes follow ty: +/-0.15% ty: +/-0.4% of linearity: +/-	of rated Vout of rated lout. 0.5% of rated	n. Vout.		
Analogue Programming and Monitoring (Isolate 1. Vout voltage programming 2. lout voltage programming (*14) 3. Vout resistor programming 4. lout resistor programming (*14)	ed from th	150V~600\\ e Output\) 0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0	~5V or 0~1 ~5V or 0~1 ~5V or 0~1 ~5/10Kohm ~5/10Kohm	+/-0.15% of r OV, user select OV, user select full scale, use full scale, use	ated output cu stable. Accura stable. Accura er selectable. A er selectable. A	cy and lineari cy and lineari Accuracy and Accuracy and	ty: +/-0.15% ty: +/-0.4% c linearity: +/- linearity: +/-	of rated Vout of rated lout. 0.5% of rated	n. Vout.		
Analogue Programming and Monitoring (Isolate 1. Vout voltage programming 2. lout voltage programming (*14) 3. Vout resistor programming 4. lout resistor programming (*14) 5. Output voltage monitor	ed from th	150V~600\\ e Output\) 0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~5V or 0~	~5V or 0~1 ~5V or 0~1 ~5V or 0~1 ~5/10Kohm ~5/10Kohm ~10V, user s	+/-0.15% of r OV, user selection OV, user selection full scale, use full scale, use electable. According	ctable. Accuractable. Accuracter selectable. Accuracter selectable. Accuracter selectable. Accuracter selectable. Accuracy: +/-0.5	cy and lineari cy and lineari cy and lineari Accuracy and Accuracy and % of rated Vo	ty: +/-0.15% ty: +/-0.4% c linearity: +/- linearity: +/- ut.	of rated Vout of rated lout. 0.5% of rated	n. Vout.		
Analogue Programming and Monitoring (Isolate 1. Vout voltage programming 2. lout voltage programming (*14) 3. Vout resistor programming 4. lout resistor programming (*14) 5. Output voltage monitor	ed from th	150V~600\\ e Output\) 0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~5V or 0~	~5V or 0~1 ~5V or 0~1 ~5V or 0~1 ~5/10Kohm ~5/10Kohm ~10V, user s	+/-0.15% of r OV, user select OV, user select full scale, use full scale, use	ctable. Accuractable. Accuracter selectable. Accuracter selectable. Accuracter selectable. Accuracter selectable. Accuracy: +/-0.5	cy and lineari cy and lineari cy and lineari Accuracy and Accuracy and % of rated Vo	ty: +/-0.15% ty: +/-0.4% c linearity: +/- linearity: +/- ut.	of rated Vout of rated lout. 0.5% of rated	n. Vout.		
Analogue Programming and Monitoring (Isolate 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)	ed from th	150V~600\\ e Output\) 0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~5V or 0~	~5V or 0~1 ~5V or 0~1 ~5V or 0~1 ~5/10Kohm ~5/10Kohm ~10V, user s	+/-0.15% of r OV, user selection OV, user selection full scale, use full scale, use electable. According	ctable. Accuractable. Accuracter selectable. Accuracter selectable. Accuracter selectable. Accuracter selectable. Accuracy: +/-0.5	cy and lineari cy and lineari cy and lineari Accuracy and Accuracy and % of rated Vo	ty: +/-0.15% ty: +/-0.4% c linearity: +/- linearity: +/- ut.	of rated Vout of rated lout. 0.5% of rated	n. Vout.		
Analogue Programming and Monitoring (Isolate 1. Vout voltage programming 2. lout voltage programming 3. Vout resistor programming 4. lout resistor programming 5. Output voltage monitor 6. Output current monitor (*14) Signals and Controls (Isolated from the Output)	ed from th	150V~600V e Output) 0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~5V or 0~	/: Less than ~5V or 0~1 ~5V or 0~1 ~5/10Kohm ~5/10K, user s ~10V, user s	+/-0.15% of r OV, user selection OV, user selectifull scale, use full scale, use full scale, use electable. Accelectable. Accelectable. Accelectable. Accelectable.	stable. Accurate stable. Accurate stable. Accurate relectable. Accurate relectable. Accurate relectable. Auracy: +/-0.5	cy and lineari cy and lineari Accuracy and Accuracy and % of rated low % of rated low	minutes follows: ty: +/-0.15% ty: +/-0.4% of linearity: +/- linearity: +/- ut. ut.	of rated Vout of rated lout. 0.5% of rated 0.5% of rated	Vout.	imum Sink Cur	rent: 10mA.
Analogue Programming and Monitoring (Isolate 1. Vout voltage programming 2. lout voltage programming (*14) 3. Vout 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	ed from th	150V~600V e Output) 0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~5V or 0~ 0~5V or 0~	/: Less than	+/-0.15% of r OV, user selection OV, user selectifull scale, use full scale, use full scale, use electable. Accelectable. Accelectable. Accelectable. Accelectable.	stable. Accurant stable	cy and lineari cy and lineari Accuracy and Accuracy and % of rated Vo % of rated lou On: On. Outp	minutes followity: +/-0.15% ty: +/-0.4% cy: +/-0.4% cy	of rated Vout of rated lout. 0.5% of rated 0.5% of rated	vout.		rent: 10mA.
Analogue Programming and Monitoring (Isolate 1. Vout voltage programming 2. lout voltage programming (*14) 3. Vout 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	ed from th	150V~600V e Output) 0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~5V or 0~ 0~5V or 0~ Power supplications of the control o	/: Less than ~5V or 0~1 ~5V or 0~1 ~5/10Kohm ~5/10Ky user si ~10V, user si y output moritor. Open co	+/-0.15% of r OV, user selection OV, user selection OV, user selection full scale, use full scale, use electable. Accomplete Acc	stable. Accuracy expectable. Accuracy: +/-0.5 lector. Output de: On. CV m.	cy and linearicy and linearicy and linearicy and linearicy and Accuracy and Accuracy and % of rated Vo % of rated lown: On: On. Outpode: Off. Max	minutes following ty: +/-0.15% ty: +/-0.4% of linearity: +/-linearity: +/-ut. ut. off: Off. Maimum Voltage	of rated Vout of rated lout. 0.5% of rated 0.5% of rated vximum Voltag 30V, Maxim	vout. lout. ge: 30V, Max um Sink Curr		
Analogue Programming and Monitoring (Isolate 1. Vout voltage programming 2. lout voltage programming (*14) 3. Vout resistor programming (*14) 4. lout resistor programming (*14) 5. Output voltage monitor 6. Output current monitor (*14) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analogue control		150V~600\\ e Output\) 0~100\%, 0\\ 0~100\%, 0\\ 0~100\%, 0\\ 0~100\%, 0\\ 0~5V or 0-\\ 0~5V or 0-\\ Power suppl\text{CV/CC Mon}\) Enable/Disa	/: Less than ~5V or 0~1 ~5V or 0~1 ~5/10Kohm ~5/10Kohm -10V, user si -10V, user si y output moritor. Open co ble analogue	+/-0.15% of r OV, user select OV, user select full scale, use full scale, use electable. Acci electable. Acci electable. Acci electable. Acci electable. Acci electable. Acci	stable. Accurantable. Accurantable. Accurantable. Accurantable. Accurantable. Accurantable. Accurantable. Accurancy: +/-0.5 uracy: +/-0.5 lector. Output de: On. CV m. control by ele	cy and linearicy and linearicy and linearicy and linearicy and Accuracy and Accuracy and 6 of rated low of rated low on: On. Outpode: Off. Max ctrical signal	minutes follows: ty: +/-0.15% ty: +/-0.4% ty: +/-0.4% ty: +/- linearity: +/- ut. ut Off: Off. Mainum Voltage or dry contact	of rated Vout of rated lout. 0.5% of rated 0.5% of rated vximum Voltag 30V, Maxim t. Remote: 0-	vout. lout. ge: 30V, Max um Sink Curi	rent: 10mA.	OV or open.
Analogue Programming and Monitoring (Isolate 1. Vout voltage programming 2. lout voltage programming (*14) 3. Vout resistor programming (*14) 4. lout resistor programming (*14) 5. Output voltage monitor 6. Output current monitor (*14) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue signal		150V~600\\ e Output\) 0~100\%, 0\\ 0~100\%, 0\\ 0~100\%, 0\\ 0~100\%, 0\\ 0~5V or 0~\\ 0~5V or 0~\\ Power suppl\text{CV/CC Mon} \\ Enable/Disa\\ Analogue pro	/: Less than -5V or 0~1 -5V or 0~1 -5V or 0~1 -5/10Kohm -10V, user si -10V, user si y output more ittor. Open coole analogue	+/-0.15% of r OV, user select OV, user select full scale, user full scale	stable. Accurational description of the control of	cy and linearicy	minutes follows: ty: +/-0.15% ty: +/-0.4% of linearity: +/- linearity: +/- ut. ut. Off: Off. Maimum Voltage or dry contacte: On. Local: Off.	of rated Vout of rated lout. 0.5% of rated 0.5% of rated vximum Voltag 30V, Maxim t. Remote: 0- off. Maximum Volf.	vout. lout. ge: 30V, Max um Sink Curi -0.6V or sho /oltage: 30V,	rent: 10mA. rt. Local: 2~30 Maximum Sink	OV or open.
Analogue Programming and Monitoring (Isolate 1. Vout voltage programming 2. lout voltage programming (*14) 3. Vout resistor programming (*14) 4. lout resistor programming (*14) 5. Output voltage monitor 6. Output current monitor (*14) Signals and Controls (Isolated from the 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		150V~600\\ 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 Mon\\ Enable/Disa\\ Analogue pro\\ Enable/Disa\\	/: Less than ~5V or 0—1 ~5V or 0—1 ~5V or 0—1 ~5/10Kohm ~5/10V, user si 10V, user si y output more tior. Open co ble analogue ogramming co ble PS outpu	+/-0.15% of r OV, user select OV, user select full scale, use full scale, use electable. Acce electable. Acce electable. Acce programming ontrol monitor s t by electrical	ated output curatable. Accurar stable. Accurar er selectable. A suracy: +/-0.5 uracy: +/-0.5 lector. Output de: On. CV m control by ele ignal. Open co signal or dry c	cy and linearicy and linearicy and linearicy and linearic Accuracy and Accuracy and % of rated Vo% of rated lou. On: On. Outpude: Off. Max ctrical signal llector. Remotontact. 0~0.	minutes follows: ty: +/-0.15% ty: +/-0.4% of linearity: +/- linearity: +/- ut. ut. Off: Off. Maimum Voltage or dry contact e: On. Local: C 6V or short, 2	of rated Vout of rated lout. 0.5% of rated 0.5% of rated vximum Volta 230V, Maxim t. Remote: 0- off. Maximum V- 30V or ope	vout. lout. Je: 30V, Maxum Sink Curr-0.6V or sho /oltage: 30V, n. User select	rent: 10mA. rt. Local: 2~30 Maximum Sink ctable logic.	OV or open.
Analogue Programming and Monitoring (Isolate 1. Vout voltage programming 2. lout voltage programming (*14) 3. Vout resistor programming 4. lout resistor programming (*14) 5. Output voltage monitor 6. Output voltage monitor 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	ed from th	150V—600V e Output) 0~100%, 0 0~100%, 0 0~100%, 0 0~5V or 0~ 0~5V or 0~ Power suppl CV/CC Mon Enable/Disal Enable/Disal	/: Less than ~5V or 0~1 ~5V or 0~1 ~5/10Kohm ~5/10Kohm ~5/10Ky user sr ~10V, user sr ~10V, user sr go output more itor. Open co- ble analogue oble PS outpuble PS outp	+/-0.15% of r OV, user select OV, user select full scale, user full scale	stable. Accurated output cutable. Accurated set selectable. Accurated selectable. Accurated selectable. Accurated selectable. Accurated selectable. Accurated selector. Output decorn. Output decorn. CV microntrol by electional. Open cookignal or dry cookignal or	cy and linearicy and linearicy and linearicy and linearicy and kecuracy and kecuracy and % of rated Vo% of rated low. On: On. Outpode: Off. Maxetrical signal lilector. Remoloniontact. 0~0. ontact. Remolonicat. Re	minutes follows: ty: +/-0.15% ty: +/-0.4% of linearity: +/- linearity: +/- ut. ut Off: Off. Maimum Voltage or dry contace or On. Local: C 6V or short, 2 tte: 0~-0.6V o	wing power of rated Vout of rated Iout. 0.5% of rated 0.5	n. Vout. lout. lout. ye: 30V, Maxum Sink Curru-0.6V or sho /oltage: 30V, n. User select	rent: 10mA. rt. Local: 2~30 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
1. Input voltage/freq. (*3)		85~265Vac	, continuous	, 47~63Hz, S	ingle Phase						
2. Maximum Input current at 100% load (100/200)	Α	18.5/9									
3. Power Factor (Typ)			Nac 0 98 @	200Vac, rated	l outnut nowe	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
	A	Less than 50		01/00	01/03	01/03	01/03	00/30	00/30	00/00	00/30
5. Inrush current (*5)	V			20	40	CO	00	100	450	200	000
Constant Voltage Mode		10	20	30	40	60	80	100	150	300	600
1. Max. Line regulation (*6)		0.01% of rat		-							
2. Max. Load regulation (*7)		0.01% of rat									
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	50PPM/°C fr	rom rated ou	tput voltage, fo	llowing 30 n	ninutes warm-	up.				
5. Temperature stability		0.01% of rat	ed Vout over	8hrs interval f	ollowing 30 i	minutes warm	-up. Constant	line, load & to	emp.		
7. Warm-up drift				output voltage							
3. Remote sense compensation/wire (*10)	V	2	2	5	5	5	5	5	5	5	5
			20	20		20	-	20		30	
9. Up-prog. Response time (*11)	mS	20	-		20		20		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
1. Transient response time	mS			o recover within							
		Output set-p	oint: 10~10	10%, Local sen	se. Less thar	1mS, for mo	dels up to and	d including 10	OV. 2mS, for I	models above	100V.
2. Start up delay	Sec	Less than 6	Sec								
3. Hold-up time	mS	20mS typica	al, rated outp	ut power							
Constant Current Mode	٧	10	20	30	40	60	80	100	150	300	600
. Max. Line regulation (*6)				rrent. +2mA		1	1				100
!. Max. Load regulation (*9)				rrent. +5mA							
				1	- 00		- 00	40	40		-
3. 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 or		-					
5. Temperature stability		0.01% of rat	ed lout over	8hrs. interval fo	ollowing 30 r	ninutes warm	-up. Constant	line, load & te	emperature.		
S. Warm-up drift		10V~100V	model: Less	than +/-0.259	% of rated ou	tput current o	ver 30 minute	s following po	wer on.		
		150V~600\	/: Less than	+/-0.15% of ra	ated output c	urrent over 30	minutes follo	owing power o	n.		
Analogue Programming and Monitoring (Isolate	d from th	e Output)									
Vout voltage programming		0~100%, 0	~5V or 0~1	IOV, user selec	table. Accura	acv and linear	itv: +/-0.15%	of rated Vout			
2. lout voltage programming (*14)				IOV, user selec		-	•				
							-		I Vaut		
3. Vout resistor programming				full scale, use		•					
4. lout resistor programming (*14)				full scale, use				-0.5% of rated	l lout.		
5. Output voltage monitor		0~5V or 0~	~10V, user s	electable. Accı	uracy: +/-0.	5% of rated Vo	out.				
6. Output current monitor (*14)		0~5V or 0~	~10V, user s	electable. Accı	uracy: +/-0.	5% of rated lo	ut.				
Signals and Controls (Isolated from the Output)											
1. Power supply OK #1 signal		Power suppl	v output moi	nitor. Open col	lector. Outpu	t On: On. Out	out Off: Off. M	aximum Volta	ge: 30V. Maxi	mum Sink Cur	rrent: 10m/
2. CV/CC signal		- ''	, ,	llector. CC mo					,		
•											0\/ or onon
3. LOCAL/REMOTE Analogue control				programming							
4. LOCAL/REMOTE Analogue signal				ontrol monitor s							Current: 10
5. ENABLE/DISABLE signal		Enable/Disal	ble PS outpu	t by electrical :	signal or dry	contact. $0\sim0$.6V or short, 2	$2\sim$ 30V or ope	n. User selec	table logic.	
S. INTERLOCK (ILC) control		Enable/Disal	ble PS outpu	t by electrical :	signal or dry	contact. Rem	ote: 0~0.6V o	or short. Local	: 2~30V or o	pen.	
7. Programmed signals				mable signals.							
B. TRIGGER IN / TRIGGER OUT signals				t voltage = 0.8		-			, ,		sitive edna
S. T. GGETT IT, THIGGET OUT SIGNAL				um. Tr,Tf=1us					mgn 10 vol 1	pur · o v po	oo ougu
9. DAISY IN/SO control signal				-0.6V/2~30V							
		by Gibblifical	voilage. U^	U.UV/2~JUV							
IN DAICY OUT/DC OV #9 sign-1		A EVI OV	U// /EUU-r		•	il.					
		4~5V=0K,	0V (500ohn	n impedance) =	•	il.					
Functions and Features				n impedance) =	=Fail						
Functions and Features					=Fail		struction mar	nual.			
Functions and Features 1. Parallel operation		Possible. Up	to 4 identic	n impedance) =	=Fail ter/Slave mo	de. Refer to ir	struction mar	nual.			
Functions and Features 1. Parallel operation 2. Series operation		Possible. Up	to 4 identic	n impedance) = al units in Mas	=Fail ter/Slave mo nstruction ma	de. Refer to in					
Functions and Features 1. Parallel operation 2. Series operation 3. Daisy chain		Possible. Up Possible. Tw Power suppl	to 4 identic vo identical u	n impedance) = al units in Mas ınits. Refer to in onnected in Da	=Fail ter/Slave mo nstruction ma uisy chain to	de. Refer to ir anual. synchronize th	eir turn-on ar	nd turn-off.	r the front par	nel	
Functions and Features 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control		Possible. Up Possible. Tw Power suppl Limits the or	to 4 identic vo identical u lies can be co utput power t	n impedance) = al units in Mas inits. Refer to in connected in Da to a programme	=Fail ter/Slave mo nstruction ma isy chain to sed value. Pro	de. Refer to ir anual. synchronize th gramming via	eir turn-on an the communi	nd turn-off. ication ports o			
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Functions and Features 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control		Possible. Up Possible. Tw Power suppl Limits the ou Emulates se Programmat	o to 4 identical unities can be coutput power tries resistance of the coutput power tries resistance of the coutput rise.	al units in Mas units. Refer to in connected in Da co a programme ce. Resistance se and Output fo	ter/Slave mo nstruction ma isy chain to sed value. Pro range: 1~1 all slew rate.	de. Refer to ir anual. synchronize th gramming via 000mΩ. Prog Programming	eir turn-on an the communi ramming via t	nd turn-off. ication ports o he communica	ation ports or		·I.
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Functions and Features 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms		Possible. Up Possible. Tw Power suppl Limits the oi Emulates se Programmat Programmin Profiles of u	to 4 identice to identical united to the control of	al units in Mass inits. Refer to in connected in Da co a programme ce. Resistance se and Output for immunication po ss can be store	ter/Slave mo nstruction ma isy chain to sed value. Pro range: 1~1 all slew rate. orts or the frod d in 4 memo	de. Refer to in anual. synchronize the gramming via 000mΩ. Programming int panel. ry cells. Active	neir turn-on an the communi ramming via t range: 0.000 ation by comm	nd turn-off. ication ports o he communic 11~999.99V/r	ation ports or mS or A/mS.	the front pane	he front pa
Functions and Features 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms Programming and Readback (USB, LAN, RS-232/		Possible. Up Possible. Tw Power suppl Limits the ou Emulates se Programmat Programmin	o to 4 identice vo identical u lies can be co utput power t ries resistance ole Output ris g via the cor	al units in Mass inits. Refer to in onnected in Da o a programme ce. Resistance se and Output for numunication po	ter/Slave monstruction maisy chain to ed value. Progrange: 1~1 all slew rate.	de. Refer to ir anual. synchronize th gramming via 000mΩ. Prog Programming int panel.	eir turn-on an the communi ramming via t range: 0.000	nd turn-off. ication ports o he communica 11~999.99V/r	ation ports or mS or A/mS.	the front pane	
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Functions and Features 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms Programming and Readback (USB, LAN, RS-232/18-485, Optional IEEE (*18) Interface)		Possible. Up Possible. Tw Power suppl Limits the oi Emulates se Programmat Programmin Profiles of u	to 4 identical unies can be coutput power tries resistant ole Output ris g via the corp to 100 step	al units in Mas inits. Refer to ir connected in Da o a programme ce. Resistance se and Output fi munication po os can be store	ter/Slave mo nstruction ma isy chain to sed value. Pro range: 1~1 all slew rate. orts or the frod d in 4 memo	de. Refer to in anual. synchronize the gramming via 000mΩ. Programming int panel. ry cells. Active	neir turn-on an the communi ramming via t range: 0.000 ation by comm	nd turn-off. ication ports o he communic 11~999.99V/r	ation ports or mS or A/mS.	the front pane	he front pa
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Eunctions and Features Parallel operation Series operation Constant power control Output resistance control Carbitrary waveforms Programming and Readback (USB, LAN, RS-232/4S-485, Optional IEEE (*18) Interface) Uout programming accuracy (*15) Uout programming resolution Uout programming resolution Uout programming resolution Uout programming resolution Uout readback accuracy Uout readback accuracy (*14)	 V	Possible. Up Possible. Tw Power suppl Limits the ou Emulates se Programmat Profiles of u 10 0.05% of rat 0.10% of actu 0.002% of ra 0.0025% of 0.05% of rate 0.2% of rate	o to 4 identical usines can be cultput power tries resistance output rise of the corp to 100 step 20 ed output vous de output vous de output vous de output vous de output verated output	al units in Mas inits. Refer to in connected in Da o a programme ce. Resistance is and Output fi munication pr os can be store 30 Iltage rrent +0.2% of oltage current oltage ent	eFail ter/Slave mo nstruction ma isy chain to sed value. Pro range: 1~1 all slew rate. ords in 4 memo 40 f rated output	de. Refer to ir anual. synchronize the gramming via 000mΩ. Programming ont panel. ry cells. Activ	teir turn-on and the community amming via the range: 0.000 ation by community 80	nd turn-off. ication ports o he communic 11~999.99V/r mand via the c	ation ports or mS or A/mS. communication	the front pane n ports or by the state of th	he front pa
10. DAISY_OUT/PS_OK #2 signal Functions and Features 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms Programming and Readback (USB, LAN, RS-232/RS-485, Optional IEEE (*18) 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 7. Vout readback resolution (of rated output voltage)	V	Possible. Up Possible. Tw Power suppl Limits the ou Emulates se Programmat Programmin Profiles of u 10 0.05% of rat 0.002% of rat 0.0025% of 0.005% of rat	o to 4 identical uies can be cultput power tries resistant ole Output ris g via the corp to 100 step 20 ed output voual output culated output varated output verated output	al units in Mas inits. Refer to in connected in Da o a programme ce. Resistance ise and Output fi mununication pr os can be store 30 Itage rrent +0.2% of oltage current oltage	ter/Slave mo nstruction ma isy chain to: ed value. Pro range: 1~1 all slew rate. orts or the frod d in 4 memo	de. Refer to ir anual. synchronize th gramming via 000mΩ. Prog Programming int panel. ry cells. Activ	eir turn-on an the communi ramming via t range: 0.000 ation by comm	nd turn-off. ication ports o he communic 11~999.99V/r	ation ports or mS or A/mS.	the front pane	he front pa

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. Rese	t by AC input i	ecycle in auto	start mode, by	OUTPUT butto	on, by rear par	nel or by com	nmunication.	
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 r	ated output v	roltage							
5. Output under voltage limit (UVL)		Prevents fro	m adjusting	Vout below lin	nit. Does not a	apply in analog	ue programmi	ng. Preset by	front panel o	r communicat	ion port.
6. Over temperature protection		Shuts down	the output.	Auto recovery	by autostart m	ode.					
7. Output under voltage limit (UVL)		Prevents ad	justment of \	out below lim	it.						
8. Output under voltage protection (UVP)						turns Off durin panel or by co		e condition. R	eset by AC ir	nput recycle ir	autostart
Front Panel											-
1. Control functions		Vout/lout/Pout/OVP/UVL/U Protection F Communica Output ON/C Communica Analogue C	VP manual a Functions - C ation Functio OFF. Front Pa ation Functio ontrol Functi	anual adjust djust DVP, UVL,UVP, ns - Selection anel Lock. ns - Selection ions - Selection	of Baud Rate, n Voltage/resi	cL, ENA, ILC IS-232,RS-48! Address, IP ar stive programr Current Monito	nd communica ning, 5V/10V,	tion language		ce.	
2. Display					d output volta output current	ge +/-1 count +/-1 count.					
3. Front Panel Buttons Indications		OUTPUT ON	I, ALARM, PI	REVIEW, FINE,	COMMUNICA	ATION, PROTEC	CTION,CONFIG	URATION, SY	STEM, SEQU	ENCER.	
4. Front Panel Display Indications		Voltage, Cu Remote (co	rrent, Power, mmunicatior	, CV, CC, CP, I n), RS/USB/LA	External Voltag N/IEEE comm	je, External Cu unication, Trig	rrent, Address, ger, Load/Stor	, LFP, Autosta e Cell.	rt, Safetstart,	Foldback V/I,	
Environmental Conditions											
Operating temperature		0~50°C, 1	00% load.								
2. Storage temperature		-30~85°C									
3. Operating humidity	%	20~90% R	H (no conde	nsation).							
4. Storage humidity	%	10~95% R	H (no conde	nsation).							
5. Altitude		Operating: 1	0000ft (3000	Om), output cu	rrent derating 2	2%/100m or Ta	derating 1°C/	100m above 2	000m. Non o	perating: 4000	00ft (12000m
Mechanical											
1. Cooling		Forced air o	cooling by int	ternal fans. Air	flow direction	: from Front pa	anel to power s	supply rear			
2. Weight	kg	Less than 3	.5kg.								
3. Dimensions (WxHxD)	mm				oars and busba sbars and bus	ars cover), bars cover) (R	efer to Outline	drawing).			
4. Vibration		MIL-810G,	method 514.	.6, Procedure	l, test conditio	n Annex C - 2.	1.3.1				
5. Shock		Less than 2	0G, half sine	, 11mS. Unit i	s unpacked.						
Safety/EMC	· ·										
1. Applicable standards: Safety GH1/1.5kW		UL61010-1	, CSA22.2 N	o. 61010-1, IE	C61010-1, E	V61010-1.					
1.1 Interface classification GH1/1.5kW						, J8 (sense) & ardous, J1, J2,					n Hazardous.
1.2 Withstand voltage GH1/1.5kW		Input - Grou 60V≤Vout≤ Output & J& Output & J& 100V < Vou Output & J&	ınd: 2835Vd 100V Model: 3 (sense) - J 3 (sense) - G t≤600V Mod 3 (sense) - J	c 1min. s: Input – Outp 1, J2, J3, J4, c round: 1500Vi lels: Input – Oi 1, J2, J3, J4, c	out & J8 (sens 15, J6, J7 & J9 dc 1min, Input utput & J8 (se 15, J6, J7 & J9	J2, J3, J4, J5, e), J1, J2, J3, d) (communicat i - Ground: 28; nse), J1, J2, J d) (communicat i - Ground: 28;	J4, J5, J6, J7 ion options): 8 85Vdc 1min. 3, J4, J5, J6, J ion options): 1	& J9 (commu 350Vdc 1min. J7 and J9 (cor	unication opti	ons): 4242Vd	c 1min,
1.3 Insulation resistance		100Mohm a	at 25°C, 70%	RH. Output to	Ground 500V	dc					
2. Conducted emission		IEC/EN6120	04-3 Industri	al environmen	t, Annex H tab	le H.1 , FCC P	art 15-A, VCCI	I-A .			
3. Radiated emission		IEC/EN6120	04-3 Industri	al environmen	t, Annex H tab	le H.3 and H4	, FCC Part 15-	-A, VCCI-A			
4. EMC compliance EMC(*4)		IEC/EN6120	04-3 Industri	al environmen	t						

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 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: Max. ambient temperature for using IEEE is 40°C. *17: Ta=25°C, rated output power.

Specifications GENESYS+ $^{\text{\tiny TM}}$ 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	600-1.7
1. Rated output voltage(*1)	V	10	20	30	40	60	80	100	150	300	600
2. Rated output current (*2)	Α	100	50	34	25	17	12.5	10	7	3.5	1.7
3. Rated output power	W	1000	1000	1020	1000	1020	1000	1000	1050	1050	1020
Input Characteristics	V	10	20	30	40	60	80	100	150	300	600
1. Input voltage/freq. (*3)		85~265Vac	, continuous	, 47∼63Hz, S	ingle 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, rated	d output powe	r.					
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	JA								
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 vol	Itage			•				
2. Max. Load regulation (*7)		0.01% of rat	ed output vol	Itage +2mV							
3. Ripple and noise (p-p, 20MHz) (*8)	mV	50	50	50	60	60	75	75	75	120	500
1. Ripple r.m.s. 5Hz~1MHz (*8)	mV	6	6	6	7	7	10	12	9	20	100
5. Temperature coefficient	PPM/°C	50PPM/°C fr	rom rated ou	tput voltage, fo	llowina 30 m	ninutes warm-	up.				
5. Temperature stability				8hrs interval f	-		•	line. load & to	emp.		
7. Warm-up drift				output voltage			•		оттр.		
3. Remote sense compensation/wire (*10)	V	2	2	5	5	5	5	5	5	5	5
9. Up-prog. Response time (*11)	mS	35	35	35	35	35	35	40	50	100	100
		35			1			-		220	
0. Down-prog.response time: Full load (*12)	mS C		30	60	60	60	60	80	120		220
No load (*12)	mS	500	700	1000	1200	1500	1700	2600	2900	4600	4600
11. Transient response time	mS			o recover withi						ut current. models above	100\/
12 Start up dolay	Soo			ı∪ ⁄0, ∟UUdi SEII	oc. Less Hidli	11110, 101 1110	ucio up io gila	moraumy 10	ov. 21110, 10f	moneis anove	TUUV.
12. Start up delay	Sec	Less than 6		ut nower							
13. Hold-up time	mS		al, rated outp		40	60	00	100	150	200	600
Constant Current Mode	V	0.000/ -44	20	30	40	60	80	100	150	300	600
1. Max. Line regulation (*6)				rrent. +2mA							
2. Max. Load regulation (*9)				rrent. +5mA		1	1				
3. Ripple r.m.s. @ rated voltage. B.W 5Hz~1MHz. (*13)	mA	≤420	≤160	≤100	≤60	≤50	≤30	≤20	≤10	≤8	≤5
1. Temperature coefficient	PPM/°C	10V~100V		°C from rated							
				C from rated o							
5. Temperature stability				8hrs. interval f	-		•		•		
6. Warm-up drift				than +/-0.25°							
			: Less than -	+/-0.15% of ra	ated output c	urrent over 30	minutes tollo	wing power o	n.		
Analogue Programming and Monitoring (Isolate											
1. Vout voltage programming				10V, user selec		-	•				
2. lout voltage programming (*14)				10V, user selec		-	-				
3. Vout resistor programming		0~100%, 0	~5/10Kohm	full scale, use	er selectable.	Accuracy and	linearity: +/-	0.5% of rated	l Vout.		
4. lout resistor programming (*14)		0~100%, 0	~5/10Kohm	full scale, use	er selectable.	Accuracy and	linearity: +/-	0.5% of rated	l lout.		
5. Output voltage monitor		0~5V or 0~	-10V, user se	electable. Acci	uracy: +/-0.5	5% of rated Vo	out.				
6. Output current monitor (*14)		0~5V or 0~	-10V, user se	electable. Accı	uracy: +/-0.5	5% of rated lo	ut.				
Signals and Controls (Isolated from the Output)											
1. Power supply OK #1 signal		Power suppl	y output mor	nitor. Open col	I4 O4						
2. CV/CC signal		CV/CC Moni	itor Opon co	•	rector, outpu	t On: On. Out	out Off: Off. Ma	aximum Voltad	ge: 30V, Maxi	imum Sink Curi	rent: 10m/
· · · · · · · · · · · · · · · · · · ·				llector, CC mo					,		rent: 10mA
a TUCAL/BEIVIUTE ADMINIUM CONTOL		Fnahle/Disal		llector. CC mo	de: On. CV m	node: Off. Max	imum Voltage	: 30V, Maxim	um Sink Curr	rent: 10mA.	
•			ble analogue	programming	de: On. CV m	node: Off. Max ectrical signa	timum Voltage For dry contac	: 30V, Maxim t. Remote: 0~	um Sink Curr ~0.6V or sho	rent: 10mA. rt. Local: 2~30	OV or open
3. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue signal 5. ENABLE/DISABLE signal		Analogue pro	ble analogue ogramming co	programming ontrol monitor s	de: On. CV m control by el ignal. Open co	node: Off. Max ectrical signa ollector. Remo	timum Voltage For dry contacte: On. Local: C	: 30V, Maxim t. Remote: 0~ Off. Maximum	oum Sink Curr ~0.6V or show Voltage: 30V,	rent: 10mA. rt. Local: 2~30 Maximum Sink	OV or open
4. LOCAL/REMOTE Analogue signal 5. ENABLE/DISABLE signal		Analogue pro Enable/Disab	ble analogue ogramming co ble PS outpu	programming ontrol monitor s t by electrical	ide: On. CV m control by el ignal. Open co signal or dry	node: Off. Max ectrical signa ollector. Remo contact. 0~0	timum Voltage For dry contacte: On. Local: C .6V or short, 2	: 30V, Maxim t. Remote: 0~ Off. Maximum \ -~30V or ope	um Sink Curr ~0.6V or show Voltage: 30V, len. User selec	rent: 10mA. rt. Local: 2~30 Maximum Sink stable logic.	OV or open
4. LOCAL/REMOTE Analogue signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control		Analogue pro Enable/Disab Enable/Disab	ble analogue ogramming co ble PS outpu ble PS outpu	programming ontrol monitor s t by electrical t by electrical	de: On. CV m control by el dignal. Open co signal or dry signal or dry	node: Off. Max ectrical signa ollector. Remo contact. 0~0 contact. Rem	timum Voltage or dry contacte: On. Local: C .6V or short, 2 ote: 0~0.6V o	: 30V, Maxim t. Remote: 0~ Off. Maximum \ ~30V or ope r short. Local	num Sink Curr ~0.6V or show Voltage: 30V, len. User select : 2~30V or o	rent: 10mA. rt. Local: 2~30 Maximum Sink stable logic. open.	OV or open
4. LOCAL/REMOTE Analogue signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals		Analogue pro Enable/Disab Enable/Disab Two open dr	ble analogue ogramming co ble PS outpu ble PS outpu rain programr	programming ontrol monitor s t by electrical t by electrical mable signals.	de: On. CV m control by el ignal. Open co signal or dry signal or dry Maximum vo	node: Off. Max ectrical signa ollector. Remo contact. 0~0 contact. Rem oltage 25V, M	timum Voltage or dry contacte: On. Local: C .6V or short, 2 ote: 0~0.6V o aximum sink c	: 30V, Maxim t. Remote: 0- Off. Maximum V 30V or ope r short. Local urrent 100mA	num Sink Curr 0.6V or shor Voltage: 30V, I en. User selec : 2~30V or o	rent: 10mA. rt. Local: 2~30 Maximum Sink stable logic. open. v 27V zener)	OV or open Current: 10
4. LOCAL/REMOTE Analogue signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control		Analogue pro Enable/Disal Enable/Disal Two open dr Maximum lo	ble analogue ogramming co ble PS outpu ble PS outpu rain programr ow level input	programming ontrol monitor s t by electrical t by electrical mable signals. t voltage = 0.8	de: On. CV m control by el ignal. Open co signal or dry signal or dry Maximum vo 3V,Minimum	node: Off. Mazectrical signa ectrical signa bllector. Remo contact. 0~0 contact. Rem lltage 25V, M high level inp	imum Voltage l or dry contac te: On. Local: C .6V or short, 2 ote: 0~0.6V o aximum sink c ut voltage = 2	: 30V, Maxim t. Remote: 0- Off. Maximum V 	num Sink Curr 0.6V or shor Voltage: 30V, I en. User selec : 2~30V or o	rent: 10mA. rt. Local: 2~30 Maximum Sink stable logic. open.	OV or open Current: 10
4. LOCAL/REMOTE Analogue signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals		Analogue pro Enable/Disal Enable/Disal Two open dr Maximum lo trigger: tw=	ble analogue ogramming co ble PS outpu ble PS outpu rain programr w level input 10us minimu	programming portrol monitor s t by electrical t by electrical mable signals. t voltage = 0.8 um. Tr,Tf=1us	de: On. CV m control by el ignal. Open co signal or dry signal or dry Maximum vo 3V, Minimum s Maximum, N	node: Off. Max ectrical signa ollector. Remo contact. 0~0 contact. Rem oltage 25V, M high level inp din delay beto	imum Voltage l or dry contac te: On. Local: C .6V or short, 2 ote: 0~0.6V o aximum sink c ut voltage = 2	: 30V, Maxim t. Remote: 0- Off. Maximum V 	num Sink Curr 0.6V or short Voltage: 30V, I en. User select 2~30V or of (Shunted by	rent: 10mA. rt. Local: 2~30 Maximum Sink stable logic. open. v 27V zener)	OV or open Current: 10
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		Analogue pro Enable/Disal Enable/Disal Two open dr Maximum lo trigger: tw= By electrical	ble analogue ogramming co ble PS output ble PS output ain programm w level input 10us minimut Voltage: 0~	programming ontrol monitor s t by electrical t by electrical mable signals. t voltage = 0.8 t voltage = 0.6 v.T.f.= 1us vol.6V/2~30V	de: On. CV m control by el ignal. Open co signal or dry signal or dry Maximum vo BV,Minimum & Maximum, N or dry contac	node: Off. Max ectrical signa ollector. Remo contact. 0~0 contact. Rem oltage 25V, M high level inp din delay beto	imum Voltage l or dry contac te: On. Local: C .6V or short, 2 bte: 0~0.6V o aximum sink c ut voltage = 2	: 30V, Maxim t. Remote: 0- Off. Maximum V 	num Sink Curr 0.6V or short Voltage: 30V, I en. User select 2~30V or of (Shunted by	rent: 10mA. rt. Local: 2~30 Maximum Sink stable logic. open. v 27V zener)	OV or open Current: 10
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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)	V	10	20	30	40	60	80	100	150	300	600
2. Rated output current (*2)	Α	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						
. Maximum Input current at 100% load (100/200)	Α	20/10									
. Power Factor (Typ)		0.99 @ 10	OVac 0.98	@ 200Vac, ra	ted output po	wer.					
1. 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 5		01/03	01/03	01/03	01/03	00/30	00/30	00/30	00/30
	_			00	40	00	00	400	450	000	000
Constant Voltage Mode	V	10	20	30	40	60	80	100	150	300	600
. Max. Line regulation (*6)			ted output vo	-							
P. Max. Load regulation (*7)		0.01% of ra	ted output vo	Itage +2mV							
B. Ripple and noise (p-p, 20MHz) (*8)	mV	50	50	50	60	60	75	75	75	120	500
I. 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	from rated ou	itput voltage, f	ollowing 30 r	ninutes warm	-up.				
5. Temperature stability				r 8hrs interval	-		•	t line load & t	emn		
7. Warm-up drift				d output voltag			· · · · · · · · · · · · · · · · · · ·				
·	V		1	5	5				E		E
3. Remote sense compensation/wire (*10)		2	2	-	-	5	5	5	5	5	5
9. Up-prog. Response time (*11)	mS	20	20	20	20	20	20	25	50	100	100
0. 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
Transient response time	mS	Time for our	tput voltage t	to recover with	in 0.5% of its	rated output	for a load cha	nge 10~90%	of rated output	current.	
									OV. 2mS, for m		100V.
12. Start up delay	Sec	Less than 6					,	3	,		
13. Hold-up time	mS		al, rated outp	nut nower							
<u> </u>	V	10	20	30	40	60	80	100	150	300	600
Constant Current Mode	-	_			40	00	00	100	150	300	000
1. Max. Line regulation (*6)			•	ırrent. +2mA							
2. Max. Load regulation (*9)		0.02% of ra	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, following 3	0 minutes wa	rm-up.			
·		150V~600	V 70PPM/	°C from rated o	output current	, following 30	minutes warr	n-up.			
5. Temperature stability		0.01% of ra	ted lout over	8hrs. interval	following 30	minutes warm	-up. Constant	line, load & t	emperature.		
6. Warm-up drift				than +/-0.25	-		•		•		
o. Warm up arm				+/-0.15% of							
Analogue Programming and Monitoring (Isolate	d from th			,				31			
			5\/ or 0	10V, user sele	otable Acour	nov and linear	itu : / 0.150	/ of rated Vout			
1. Vout voltage programming		-				-	•				
2. lout voltage programming (*14)			1~5V or U~	10V, user sele	ctable. Accur	acv and linear	IIV: +/-U.4%				
							•				
3. vout resistor programming		0~100%, 0	~5/10Kohn	n full scale, us			•		l Vout.		
		-			er selectable.	Accuracy and	d linearity: +/	-0.5% of rated			
Yout resistor programming Iout resistor programming (*14) Output voltage monitor		0~100%, 0	~5/10Kohn	n full scale, us	er selectable. er selectable.	Accuracy and	d linearity: +/	-0.5% of rated			
4. lout resistor programming (*14) 5. Output voltage monitor		0~100%, 0 0~5V or 0	l∼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	d linearity: +/ d linearity: +/ out.	-0.5% of rated			
4. lout resistor programming (*14) 5. Output voltage monitor 6. Output current monitor (*14)		0~100%, 0 0~5V or 0	l∼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	d linearity: +/ d linearity: +/ out.	-0.5% of rated			
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-)~5/10Kohn ~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 lo	d linearity: +/ d linearity: +/ out. ut.	-0.5% of rated -0.5% of rated	l lout.	Sigle Com	grant 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%, C 0~5V or 0~ 0~5V or 0~	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	d linearity: +/ d linearity: +/ out. ut.	-0.5% of rated -0.5% of rated laximum Volta	l lout. ge: 30V, Maxin		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%, C 0~5V or 0~ 0~5V or 0~ Power supp CV/CC Mon	~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. euracy: +/-0. euracy: +/-0. llector. Outpu	Accuracy and Accuracy and 5% of rated V 5% of rated Ic at On: On. Out node: Off. Ma	d linearity: +/ d linearity: +/ out. put Off: Off. M kimum Voltag	-0.5% of rated -0.5% of rated laximum Volta e: 30V, Maxim	l lout. ge: 30V, Maxin num Sink Curre	nt: 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		0~100%, C 0~5V or 0~ 0~5V or 0~ Power supp CV/CC Mon	~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. euracy: +/-0. euracy: +/-0. llector. Outpu	Accuracy and Accuracy and 5% of rated V 5% of rated Ic at On: On. Out node: Off. Ma	d linearity: +/ d linearity: +/ out. put Off: Off. M kimum Voltag	-0.5% of rated -0.5% of rated laximum Volta e: 30V, Maxim	l lout. ge: 30V, Maxin	nt: 10mA.	
4. lout resistor programming (*14) 5. Output voltage monitor 6. Output current monitor (*14)		0~100%, C 0~5V or 0- 0~5V or 0- Power supp CV/CC Mon	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. suracy: +/-0. suracy: +/-0. llector. 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	d linearity: +/ d linearity: +/ but. put Off: Off. M kimum Voltag I or dry conta	-0.5% of rated -0.5% of rated laximum Volta e: 30V, Maxim ct. Remote: 0-	l lout. ge: 30V, Maxin num Sink Curre	nt: 10mA. . 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 8. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue signal		0~100%, C 0~5V or 0- 0~5V or 0- Power supp CV/CC Mon Enable/Disa Analogue pr	2-5/10Kohn -10V, user s -10V, user s ly output mo itor. Open co ible analogue ogramming c	n full scale, us n full scale, us selectable. Acc selectable. Acc nitor. Open co ollector. CC m e programming ontrol monitor	er selectable. er selectable. curacy: +/-0. curacy: +/-0. llector. Outpu ode: On. CV r g control by e signal. Open o	Accuracy and Accuracy and 5% of rated V 5% of rated Ic at On: On. Out node: Off. Ma lectrical signa ollector. Remo	d linearity: +/ d linearity: +/ out. ut. put Off: Off. M kimum Voltag I or dry conta ote: On. Local:	-0.5% of rated -0.5% of rated laximum Volta e: 30V, Maxim ct. Remote: 0- Off. Maximum	ge: 30V, Maxinum Sink Curre ~0.6V or short Voltage: 30V, N	nt: 10mA. . Local: 2~3 laximum Sink	OV or oper
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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 3. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control		0~100%, C 0~5V or 0- 0~5V or 0- Power supp CV/CC Mon Enable/Disa Analogue pr Enable/Disa Enable/Disa	10-5/10Kohm -10V, user s -10V output mo itor. Open co ble analogue ogramming c ble PS outpu ble PS outpu	n full scale, us n full scale, us selectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable of the programming ontrol monitor ut by electrical ut by electrical	er selectable. er selectable. euracy: +/-0. euracy: +/-0. llector. Outpu ode: On. CV r g control by e signal. Open c signal or dry signal or dry	Accuracy and Accuracy and Accuracy and Accuracy and 55% of rated V 55% of rated Ic It On: On. Out It On.	d linearity: +/ d linearity: +/ but. put Off: Off. M kimum Voltag I or dry conta bte: On. Local: 1.6V or short, ote: 0~0.6V	-0.5% of rated -0.5% of rated laximum Volta e: 30V, Maxim ct. Remote: 0- Off. Maximum 2~30V or ope or short. Local	ge: 30V, Maxin num Sink Curre ~0.6V or short Voltage: 30V, N en. User selecta : 2~30V or op	nt: 10mA Local: 2~3 flaximum Sink able logic. een.	OV or oper
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4. lout resistor programming (*14) 5. Output voltage monitor 6. Output voltage 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 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 8. Daisy chain 4. Constant power control		0~100%, C 0~5V or 0- 0~5V of ra	10-5/10Kohn 10V, user s 10V, u	In full scale, us in full scale, us in full scale, us in full scale, us selectable. Accelectable. Accelectable in the epidemior of the epidemior of the epidemior. Accelectable in the epidemior. Tr. Tf = 1 u = 0.6 V/2 = 30 v impedance) The epidemior of the epidemior of the epidemior of the epidemior. Accelectable in Discontinuous epidemior. Accel	er selectable er selector. Output be de: On. CV r g control by e signal. Open c signal or dry selectable. Maximum view at Maximum, or dry contare Fail selectable. Protestable er range: 1—1 fall slew rate. Protestable er selectable er selectable er selectable. Orts or the forest of the forest of the forest of the selectable.	Accuracy and Accur	I linearity: +/ I linearity: +	alaximum Volta e: 30V, Maximum ct. Remote: 0- Off. Maximum 2~30V or ope or short. Local current 100m/ 2.5V, Maximu a 1ms. hual. d turn-off. ication ports of the communic off ~999.99V/fi mand via the of	ge: 30V, Maxin num Sink Curre ~0.6V or short Voltage: 30V, M en. User selecta : 2~30V or op A (Shunted by 2 m high level in or the front pane ation ports or t mS or A/mS.	nt: 10mA Local: 2~3 daximum Sink able logic. sen. 27V zener) sput = 5V po	OV or oper Current: 11 sitive edge
4. lout resistor programming (*14) 5. Output voltage monitor 6. Output voltage 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 8. TRIGGER IN / TRIGGER OUT signals 10. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal Functions and Features 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms Programming and Readback (USB, LAN, RS-232/RS-485, Optional IEEE (*18) Interface) 1. Vout programming accuracy (*15) 2. lout programming resolution 4. lout programming resolution 5. Vout readback accuracy		0~100%, C 0~5V or 0- 0~5V of ra	10-5/10Kohn 10V, user s 10V, u	In full scale, us in full scale, us in full scale, us in full scale, us selectable. Accelectable. Accelectable in the epidemior of the epidemior of the epidemior. Accelectable in the epidemior. Tr. Tf = 1 u = 0.6 V/2 = 30 v impedance) The epidemior of the epidemior of the epidemior of the epidemior. Accelectable in Discontinuous epidemior. Accel	er selectable er selector. Output be de: On. CV r g control by e signal. Open c signal or dry selectable. Maximum view at Maximum, or dry contare Fail selectable. Protestable er range: 1—1 fall slew rate. Protestable er selectable er selectable er selectable. Orts or the forest of the forest of the forest of the selectable.	Accuracy and Accur	I linearity: +/ I linearity: +	alaximum Volta e: 30V, Maximum ct. Remote: 0- Off. Maximum 2~30V or ope or short. Local current 100m/ 2.5V, Maximu a 1ms. hual. d turn-off. ication ports of the communic off ~999.99V/fi mand via the of	ge: 30V, Maxin num Sink Curre ~0.6V or short Voltage: 30V, M en. User selecta : 2~30V or op A (Shunted by 2 m high level in or the front pane ation ports or t mS or A/mS.	nt: 10mA Local: 2~3 daximum Sink able logic. sen. 27V zener) sput = 5V po	OV or oper

Specifications GENESYS+™ G (1/1.7kW)

Protective Functions	V	10	20	30	40	60	80	100	150	300	600
1. Foldback protection				power supply o y AC input recy							
2. Over-voltage protection (OVP)		Output shut	-down. Reset	by AC input re	cycle in auto	start mode, by	OUTPUT butto	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	ated output vo	oltage							
5. Output under voltage limit (UVL)		Prevents fro	m adjusting \	Vout below lim	it. Does not a	pply in analog	ue programmi	ng. Preset by	front panel or	communicat	ion port.
6. Over temperature protection		Shuts down	the output. A	Auto recovery b	y autostart m	ode.					
7. Output under voltage limit (UVL)		Prevents ad	justment of V	out below limi	t.						
8. Output under voltage protection (UVP)		Prevents ad	justment of V	out below limi	t. P.S output			e condition. F	Reset by AC in	put recycle ir	autostart
Front Panel											
1. Control functions		Vout/lout/Po OVP/UVL/U Protection F Communica Output ON/O Communica Analogue C	ition Functior OFF. Front Pa ition Function ontrol Function	anual adjust djust VP, UVL,UVP, I ns - Selection o	of LAN,IEEE,R of Baud Rate, Voltage/resi	S-232,RS-485 Address, IP ar stive programr	d communica ning, 5V/10V,	tion language	ı.	ce.	
2. Display		Vout: 4 digi	ts, accuracy:	0.05% of rated 0.2% of rated o	l output volta	ge +/-1 count					
3. Front Panel Buttons Indications		_		REVIEW, FINE,	-		TION.CONFIG	URATION, SY	STEM. SEQUE	NCER.	
4. Front Panel Display Indications		Voltage, Cu	rrent, Power,	CV, CC, CP, E:), RS/USB/LAN	xternal Voltag	e, External Cu	rent, Address,	LFP, Autosta			
Environmental Conditions		Tromoto (oo		<u>,, 110, 000, 211</u>	VIEEE 00111111	amountern, ring	901, 2000, 0101	0 00			
Operating temperature		0~50°C, 1	00% load.								
Storage temperature		-30~85°C									
3. Operating humidity	%		H (no conder	nsation)							
Storage humidity	%		H (no conder	,							
5. Altitude			· ·	m), output curi	rant darating (00/ /100m or To	dorating 100/	100m abovo 0	0000m Non o	porating: 4000	00ft /12000m
Mechanical		Operating. I		iii), output cuii	ciii ucialiily 2	2 /0/ 100111 01 10	ucialing 1 0/	TOUTH ADOVE 2	טטטווו. וזיטוו טן	Jeraling. 4000	JUIL (12000III
		Forced sir s	aalina by int	arnal fana Air i	flaw diraction	, from Front n	unal ta nawar s	unnly roor			
1. Cooling				ernal fans. Air t	now direction	: Irom From pa	illel to power s	вирріу геаг			
2. Weight	kg	Less than 5	0	4 5 0400							
3. Dimensions (WxHxD)	mm	W: 423, H:	43.6, D: 553	1.5 (Without bu 3.2 (Including	busbars and I	ousbars cover)	•	ine drawing).			
4. Vibration				6, Procedure I,		n 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	o.61010-1, IEC	61010-1, EN	161010-1					
1.1 Interface classification G1kW/1.7kW				ut, J1, J2, J3, c Output & J8 (se							n Hazardous.
1.2 Withstand voltage G1kW/1.7kW		Input - Grou 60V≤Vout≤ Output & J8 Output & J8 100V <vou Output & J8</vou 	ind: 2835Vdc 100V Models (sense) - J1 (sense) - Gr i≤600V Mode (sense) - J1	- Output & J8 c: 1min. s: Input - Outpu , J2, J3, J4, J5 cound: 1500Vd els: Input - Out , J2, J3, J4, J5 cound: 2500Vd	ut & J8 (sens 5, J6, J7 & J9 c 1min, Input tput & J8 (se 5, J6, J7 & J9	e), J1, J2, J3, d (communicat - Ground: 283 nse), J1, J2, J3 d (communicat	J4, J5, J6, J7 ion options): 8 5Vdc 1min. 3, J4, J5, J6, J ion options): 1	& J9 (commi 350Vdc 1min. 7 and J9 (col	unication option	ons): 4242Vd	c 1min,
1.3 Insulation resistance		100Mohm a	ıt 25°C, 70%l	RH. Output to (Ground 500V	dc					
2. Conducted emission		IEC/EN6120	04-3 Industria	al environment,	Annex H tab	le H.1 , FCC P	art 15-A, VCCI	-A .			
3. Radiated emission		IEC/EN6120	04-3 Industria	al environment,	Annex H tab	le H.3 and H4	FCC Part 15-	A, VCCI-A			
4. EMC compliance EMC(*4)		According t	n IFC/FN612	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.
- $^{\star}16:$ 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	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			OV models: OV models: OV models: OV models:	342~460Vac 342~528Vac 170~265Vac 10A @ 200V	c, 47~63Hz (c, 47~63Hz (c, 47~63Hz (ac 3-Phase	Covers 380/40 Covers 380/40 Covers 200/20	00/415Vac) 00/415/440/4 08/230/240Va	ic)	ase, 480V mo	dels: 5.5A @	380Vac
2 Dower Easter (Typ)		1-Phase, 200				wor Ear 1 Dha	noo: 0 00 @ 1	000Vaa ratad	output nower		
3. Power Factor (Typ)				1				200Vac, rated			00.5
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 50/		1	1	1	1	1	1		1
Constant Voltage Mode	V		20	30	40	60	80	100	150	300	600
1. Max. Line regulation (*7)		0.01% of rate	d output vo	Itage							
2. Max. Load regulation (*8)		0.01% of rate	d output vo	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 fro	om rated ou	itput voltage,	following 30 r	minutes warm-	·up.				
6. Temperature stability		0.01% of rate	d Vout over	r 8hrs interval	following 30	minutes warm	-up. Constant	t line, load & t	emp.		
7. Warm-up drift		Less than 0.0	5% of rated	d output voltag	ge+2mV over	30 minutes fo	ollowing power	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	30	30	50	50	50	50	50	100
10. Down-prog.response time: Full load (*11)	mS		50	80	80	80	100	100	100	100	200
No load (*12)	mS		600	800	900	1100	1300	2100	2000	3200	3100
11. Transient response time	mS	Time for outp	ut voltage t	o recover with	nin 0.5% of its	rated output	or a load cha	nge 10~90%	of rated outpu		
12. Start up delay	Sec	Less than 6 S		. J 70, LOURI 30			_5.5 up to all	o.uumiy 10			7001.
Constant Current Mode	V		20	30	40	60	80	100	150	300	600
	-				40	00	00	100	100	300	000
1. Max. Line regulation (*7)		0.05% of rate									
2. Max. Load regulation (*13)		0.08% of rate		-	-450	400	.70	.45	.00	.40	.e
3. Ripple r.m.s. @ rated voltage. 3-Phase (*14)	mA .		≤450	≤300	≤150	≤100	≤70	≤45	≤30	≤12	≤5
I. Ripple r.m.s. @ rated voltage. 1-Phase (*14)	mA		≤600	≤300	≤300	≤200	≤100	≤60	≤40	≤12	≤8
5. Temperature coefficient	PPM/°C							ollowing 30 m		лр.	
6. Temperature stability		0.01% of rate	d lout over	8hrs. interval	following 30	minutes warm	-up. Constant	line, load & t	emperature.		
7. Warm-up drift		10V~100V: L	_ess than +	/-0.25%, 150	V~600V: Les	s than +/-0.1	5% of rated οι	itput current ov	ver 30 minutes	s following pov	ver on.
Analogue Programming and Monitoring (Isolate	d from th	e Output)									
Allalogue i rogramming and monitoring (isolate	u mom m	o output)									
			~5V or 0~	10V, user sele	ectable. Accur	acy and linear	ity: +/-0.159	6 of rated Vout	t.		
1. Vout voltage programming							•		t.		
1. Vout voltage programming 2. lout voltage programming (*15)		0~100%, 0~ 0~100%, 0~	~5V or 0~	10V, user sele	ectable. Accur	acy and linear	ity: +/-0.4%				
Nout voltage programming Iout voltage programming (*15) Vout resistor programming		0~100%, 0~ 0~100%, 0~ 0~100%, 0~	~5V or 0~ ~5/10Kohm	10V, user sele n full scale, us	ectable. Accur ser selectable	acy and linear Accuracy and	ity: +/-0.4% I linearity: +/	of rated lout.	d Vout.		
1. Vout voltage programming 2. lout voltage programming (*15) 3. Vout resistor programming 4. lout resistor programming (*15)		0~100%, 0~ 0~100%, 0~ 0~100%, 0~ 0~100%, 0~	~5V or 0~ ~5/10Kohm ~5/10Kohm	10V, user sele n full scale, us n full scale, us	ectable. Accur ser selectable ser selectable	acy and linear Accuracy and Accuracy and	ity: +/-0.4% I linearity: +/	of rated lout. '-0.5% of rated	d Vout.		
1. Vout voltage programming 2. lout voltage programming (*15) 3. Vout resistor programming 4. lout resistor programming (*15) 5. Output voltage monitor		0~100%, 0~ 0~100%, 0~ 0~100%, 0~ 0~100%, 0~ 0~5V or 0~	~5V or 0~ ~5/10Kohm ~5/10Kohm 10V, user s	10V, user sele n full scale, us n full scale, us selectable. Ac	ectable. Accur ser selectable ser selectable curacy: +/-0.	acy and linear Accuracy and Accuracy and 5%.	ity: +/-0.4% I linearity: +/	of rated lout. '-0.5% of rated	d Vout.		
1. Vout voltage programming 2. lout voltage programming (*15) 3. Vout resistor programming 4. lout resistor programming (*15) 5. Output voltage monitor 6. Output current monitor (*15)		0~100%, 0~ 0~100%, 0~ 0~100%, 0~ 0~100%, 0~	~5V or 0~ ~5/10Kohm ~5/10Kohm 10V, user s	10V, user sele n full scale, us n full scale, us selectable. Ac	ectable. Accur ser selectable ser selectable curacy: +/-0.	acy and linear Accuracy and Accuracy and 5%.	ity: +/-0.4% I linearity: +/	of rated lout. '-0.5% of rated	d Vout.		
1. Vout voltage programming 2. lout voltage programming (*15) 3. Vout resistor programming 4. lout resistor programming (*15) 5. Output voltage monitor 6. Output current monitor (*15) Signals and Controls (Isolated from the Output)		0~100%, 0~ 0~100%, 0~ 0~100%, 0~ 0~100%, 0~ 0~5V or 0~ 0~5V or 0~	~5V or 0~ ~5/10Kohm ~5/10Kohm 10V, user s 10V, user s	10V, user sele n full scale, us n full scale, us selectable. Ac selectable. Ac	ectable. Accur ser selectable ser selectable curacy: +/-0. curacy: +/-0.	acy and linear Accuracy and Accuracy and 5%. 5%.	ity: +/-0.4% I linearity: +/	of rated lout. '-0.5% of rated '-0.5% of rated	1 Vout. 1 lout.	imum Sink Du	rrent: 10mA
1. Vout voltage programming 2. lout voltage programming (*15) 3. Vout resistor programming 4. lout resistor programming (*15) 5. Output voltage monitor 6. Output current monitor (*15) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal		0~100%, 0~ 0~100%, 0~ 0~100%, 0~ 0~100%, 0~ 0~5V or 0~ Power supply	~5V or 0~ ~5/10Kohm ~5/10Kohm 10V, user s 10V, user s	10V, user sele n full scale, us n full scale, us selectable. Ac selectable. Ac nitor. Open co	ectable. Accur ser selectable ser selectable curacy: +/-0. curacy: +/-0.	acy and linear Accuracy and Accuracy and 5%. 5%.	ity: +/-0.4% I linearity: +/ I linearity: +/	of rated lout. 7-0.5% of rated 7-0.5% of rated 1-0.5% of rated	1 Vout. 1 lout. ge: 30V, Maxi	imum Sink Cu	rrent: 10mA
1. Vout voltage programming 2. lout voltage programming (*15) 3. Vout resistor programming 4. lout resistor programming (*15) 5. Output voltage monitor 6. Output current monitor (*15) Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal		0-100%, 0- 0-100%, 0- 0-100%, 0- 0-100%, 0- 0-5V or 0- 0-5V or 0- Power supply	~5V or 0~ ~5/10Kohm ~5/10Kohm 10V, user s 10V, user s v output mo or. Open co	10V, user sele n full scale, us n full scale, us selectable. Ac selectable. Ac nitor. Open co	ectable. Accur ser selectable ser selectable curacy: +/-0. curacy: +/-0. billector. Outpu	acy and linear Accuracy and Accuracy and 5%. 5%. ut On: On. Out	ity: +/-0.4% I linearity: +/ I linearity: +/ Dut Off: Off. M	of rated lout0.5% of rated -0.5% of rated -0.5% of rated laximum Volta e: 30V, Maxim	d Vout. d lout. ge: 30V, Maxi num Sink Curr	ent: 10mA.	
1. Vout voltage programming 2. lout voltage programming (*15) 3. Vout resistor programming (*15) 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		0-100%, 0- 0-100%, 0- 0-100%, 0- 0-100%, 0- 0-5V or 0- 0-5V or 0- Power supply CV/CC Monito	~5V or 0~ ~5/10Kohm ~5/10Kohm 10V, user s 10V, user s v output mo or. Open co le analogue	10V, user sele in full scale, us in full scale, us selectable. Ac selectable. Ac initor. Open co officetor. CC m	ectable. Accur ser selectable ser selectable curacy: +/-0. curacy: +/-0. billector. Outpu node: On. CV r g control by e	acy and linear Accuracy and Accuracy and 5%. 5%. ut On: On. Out mode: Off. Ma: lectrical signa	ity: +/-0.4% I linearity: +/ I linearity: +/ out Off: Off. M kimum Voltag I or dry conta	of rated lout. -0.5% of rated -0.5% of rated laximum Volta e: 30V, Maxim ct. Remote: 0-	d Vout. d lout. ge: 30V, Maxinum Sink Curr ~0.6V or shol	rent: 10mA. rt. Local: 2~3	OV or open.
1. Vout voltage programming 2. lout voltage programming (*15) 3. Vout resistor programming (*15) 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		0-100%, 0- 0-100%, 0- 0-100%, 0- 0-100%, 0- 0-5V or 0- 0-5V or 0- Power supply CV/CC Monite Enable/Disabl	~5V or 0~ ~5/10Kohm ~5/10Kohm 10V, user s 10V, user s v output mo or. Open co le analogue gramming co	10V, user selen full scale, usen full scale, usen full scale, usen full scale, usen full scale. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelector. CC metaprogrammin ontrol monitor monitor	ectable. Accur ser selectable ser selectable curacy: +/-0. curacy: +/-0. pollector. Output node: On. CV r g control by e signal. Open of	acy and linear Accuracy and Accuracy and 5%. 5%. It On: On. Out mode: Off. Ma: lectrical signa collector. Remo	ity: +/-0.4% I linearity: +/ I linearity: +/ I linearity: +/ out Off: Off. M kimum Voltag I or dry conta	of rated lout0.5% of rated -0.5% of rated laximum Volta e: 30V, Maxim ct. Remote: 0-	ge: 30V, Maxi num Sink Curr ~0.6V or shot Voltage: 30V, I	rent: 10mA. rt. Local: 2~3 Maximum Sink	OV or open.
1. Vout voltage programming 2. lout voltage programming (*15) 3. Vout resistor programming (*15) 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		0-100%, 0- 0-100%, 0- 0-100%, 0- 0-100%, 0- 0-5V or 0- 0-5V or 0- Power supply CV/CC Monite Enable/Disabl Analogue prog Enable/Disabl	~5V or 0~ ~5/10Kohm ~5/10Kohm 10V, user s 10V, user s voutput mo or. Open co le analogue gramming cr le PS output	10V, user selen full scale, usen full scale, usen full scale, usen full scale, usen full scale. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. The programmin control monitor under the programmin that by electrica	ectable. Accur ser selectable ser selectable curacy: +/-0. curacy: +/-0. billector. Outpu node: On. CV r g control by e signal. Open of	acy and linear Accuracy and Accuracy and 5%. 5%. It On: On. Out mode: Off. Ma: lectrical signa collector. Remo contact. 0~C	ity: +/-0.4% I linearity: +/ I linearity: +/ I linearity: +/ out Off: Off. M kimum Voltag I or dry conta te: On. Local: .6V or short,	of rated lout. 7-0.5% of rated 7-0.5% of rated 1-0.5% of rated	ge: 30V, Maxinum Sink Curr ~0.6V or shot Voltage: 30V, Isseed to the control of t	rent: 10mA. rt. Local: 2~3 Maximum Sink table logic.	OV or open.
1. Vout voltage programming 2. lout voltage programming (*15) 3. Vout resistor programming (*15) 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—100%, 0— 0—100%, 0— 0—100%, 0— 0—5V or 0— 0—5V or 0— Power supply CV/CC Monitt Enable/Disabl Analogue prog Enable/Disabl Enable/Disabl	-5V or 05/10Kohm -5/10Kohm 10V, user s 10V, user s v output moo or. Open co le analogue gramming co le PS output le PS output le PS output	10V, user selen full scale, user full scale, user full scale, user full scale, user full scale. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable full scale full sc	ectable. Accur ser selectable ser selectable curacy: +/-0. curacy: +/-0. ollector. Outpu node: On. CV r g control by e signal. Open of I signal or dry	acy and linear Accuracy and Accuracy and Solution: On. Out mode: Off. Ma: lectrical signa collector. Remo contact. O~C contact. Remo	ity: +/-0.4% I linearity: +/ I linearity: +/ Out Off: Off. M kimum Voltag I or dry conta te: On. Local: 1.6V or short, ote: 00.6V	of rated lout0.5% of rated -0.5% of rated	ge: 30V, Maxi num Sink Curr ~0.6V or shor Voltage: 30V, Isen. User selec 1: 2~30V or o	ent: 10mA. rt. Local: 2~3 Maximum Sink table logic. pen.	OV or open.
1. Vout voltage programming 2. lout voltage programming (*15) 3. Vout resistor programming (*15) 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—100%, 0— 0—100%, 0— 0—100%, 0— 0—5V or 0— 0—5V or 0— Power supply CV/CC Monitt Enable/Disabl Analogue prog Enable/Disabl Two open dra	-5V or 05/10Kohm -5/10Kohm 10V, user s 10V, user s r output moo or. Open co le analogue gramming co le PS output le PS output in program	10V, user selen full scale, user full scale, user full scale, user full scale, user full scale. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable full scale fu	ectable. Accur ser selectable ser selectable curacy: +/-0. curacy: +/-0. pllector. Output node: On. CV r g control by e signal. Open of I signal or dry I signal or dry s. Maximum v	acy and linear Accuracy and Accuracy and Solutions Accuracy and Accura	ity: +/-0.4% I linearity: +/ I linearity: +/ I linearity: +/ but Off: Off. M kimum Voltag I or dry conta te: On. Local: 6V or short, ote: 0~0.6V aximum sink	of rated lout0.5% of rated -0.5%	ge: 30V, Maxi num Sink Curr ~0.6V or shor Voltage: 30V, Isen. User select 1: 2~30V or oa	rent: 10mA. rt. Local: 2~3 Maximum Sink rtable logic. pen. 27V zener)	60V or open. Current: 10
1. Vout voltage programming 2. lout voltage programming (*15) 3. Vout resistor programming (*15) 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		0—100%, 0— 0—100%, 0— 0—100%, 0— 0—100%, 0— 0—5V or 0— 0—5V or 0— Power supply CV/CC Monitt Enable/Disabl Analogue prog Enable/Disabl Two open dra Maximum low	-5V or 05/10Kohm -5/10Kohm 10V, user s 10V, user s output moor. Open co le analogue gramming co le PS output le PS output in program v level inpu	10V, user selen full scale, user full scale. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable full scale	ectable. Accur ser selectable ser selectable curacy: +/-0. curacy: +/-0. pllector. Outpu node: On. CV r g control by e signal. Open of I signal or dry I signal or dry I signal or dry s. Maximum v 0.8V, Minimum	acy and linear Accuracy and Accuracy and Solution Accuracy and Accurac	ity: +/-0.4% I linearity: +/ I linearity: +/ I linearity: +/ but Off: Off. M kimum Voltag I or dry conta te: On. Local: 6V or short, ote: 0~0.6V aximum sink but voltage =	of rated lout0.5% of rated -0.5%	ge: 30V, Maxi num Sink Curr ~0.6V or shor Voltage: 30V, Isen. User select 1: 2~30V or oa	ent: 10mA. rt. Local: 2~3 Maximum Sink table logic. pen.	60V or open. Current: 10
1. Vout voltage programming 2. lout voltage programming (*15) 3. Vout resistor programming (*15) 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		0—100%, 0— 0—100%, 0— 0—100%, 0— 0—100%, 0— 0—5V or 0— 0—5V or 0— Power supply CV/CC Monitt Enable/Disabl Analogue prog Enable/Disabl Two open dra Maximum low trigger: tw = 1	-5V or 05/10Kohm -5/10Kohm 10V, user s 10V, user s output mo or. Open co le analogue gramming co le PS output le PS output in program v level inpu 0us minim	10V, user sele in full scale, us in full scale, us selectable. Ac selectable. Ac selectable. Ac intor. Open co programmin control monitor it by electrica it by electrica mable signals t voltage = 0 um. Tr,Tf=1u	ectable. Accur ser selectable ser selectable curacy: +/-0. curacy: +/-0. pllector. Output node: On. CV r g control by e signal. Open of I signal or dry I signal or dry I signal or dry s. Maximum v b.8V, Minimum us Maximum,	acy and linear Accuracy and Accuracy and Solution Accuracy and Accurac	ity: +/-0.4% I linearity: +/ I linearity: +/ I linearity: +/ but Off: Off. M kimum Voltag I or dry conta te: On. Local: 6V or short, ote: 0~0.6V aximum sink but voltage =	of rated lout0.5% of rated -0.5%	ge: 30V, Maxi num Sink Curr ~0.6V or shor Voltage: 30V, Isen. User select 1: 2~30V or oa	rent: 10mA. rt. Local: 2~3 Maximum Sink rtable logic. pen. 27V zener)	60V or open Current: 10
1. Vout voltage programming 2. lout voltage programming (*15) 3. Vout resistor programming (*15) 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		0—100%, 0— 0—100%, 0— 0—100%, 0— 0—100%, 0— 0—5V or 0— 0—5V or 0— Power supply CV/CC Monitt Enable/Disabl Analogue prog Enable/Disabl Two open dra Maximum low	-5V or 05/10Kohm -5/10Kohm 10V, user s 10V, user s output mo or. Open co le analogue gramming co le PS output le PS output in program v level inpu 0us minim	10V, user sele in full scale, us in full scale, us selectable. Ac selectable. Ac selectable. Ac intor. Open co programmin control monitor it by electrica it by electrica mable signals t voltage = 0 um. Tr,Tf=1u	ectable. Accur ser selectable ser selectable curacy: +/-0. curacy: +/-0. pllector. Output node: On. CV r g control by e signal. Open of I signal or dry I signal or dry I signal or dry s. Maximum v b.8V, Minimum us Maximum,	acy and linear Accuracy and Accuracy and Solution Accuracy and Accurac	ity: +/-0.4% I linearity: +/ I linearity: +/ I linearity: +/ but Off: Off. M kimum Voltag I or dry conta te: On. Local: 6V or short, ote: 0~0.6V aximum sink but voltage =	of rated lout0.5% of rated -0.5%	ge: 30V, Maxi num Sink Curr ~0.6V or shor Voltage: 30V, Isen. User select 1: 2~30V or oa	rent: 10mA. rt. Local: 2~3 Maximum Sink rtable logic. pen. 27V zener)	60V or open. Current: 10
1. Vout voltage programming 2. lout voltage programming (*15) 3. Vout resistor programming (*15) 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		0—100%, 0— 0—100%, 0— 0—100%, 0— 0—100%, 0— 0—5V or 0— 0—5V or 0— Power supply CV/CC Monitt Enable/Disabl Analogue prog Enable/Disabl Two open dra Maximum low trigger: tw = 1	-5V or 05/10Kohm -5/10Kohm 10V, user s 10V, user s v output moor. Open colle analogue gramming colle PS output le PS output in program v level inpu 0 us minim Voltage: 0	10V, user selen full scale, user full scale. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable full scale	ectable. Accur ser selectable ser selectable curacy: +/-0. curacy: +/-0. pllector. Output node: On. CV r g control by e signal. Open of l signal or dry l signal or dry s. Maximum v v. 8V, Minimum us Maximum, v or dry conta	acy and linear Accuracy and Accuracy and Solution Accuracy and Accurac	ity: +/-0.4% I linearity: +/ I linearity: +/ I linearity: +/ but Off: Off. M kimum Voltag I or dry conta te: On. Local: 6V or short, ote: 0~0.6V aximum sink but voltage =	of rated lout0.5% of rated -0.5%	ge: 30V, Maxi num Sink Curr ~0.6V or shor Voltage: 30V, Isen. User select 1: 2~30V or oa	rent: 10mA. rt. Local: 2~3 Maximum Sink rtable logic. pen. 27V zener)	60V or open. Current: 10
1. Vout voltage programming 2. lout voltage programming (*15) 3. Vout resistor programming (*15) 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—100%, 0— 0—100%, 0— 0—100%, 0— 0—5V or 0— 0—5V or 0— Power supply CV/CC Monitt Enable/Disabl Analogue prog Enable/Disabl Two open dra Maximum low trigger: tw = 1 By electrical	-5V or 05/10Kohm -5/10Kohm 10V, user s 10V, user s v output moor. Open colle analogue gramming colle PS output le PS output in program v level inpu 0 us minim Voltage: 0	10V, user selen full scale, user full scale. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable full scale	ectable. Accur ser selectable ser selectable curacy: +/-0. curacy: +/-0. pllector. Output node: On. CV r g control by e signal. Open of l signal or dry l signal or dry s. Maximum v v. 8V, Minimum us Maximum, v or dry conta	acy and linear Accuracy and Accuracy and Solution Accuracy and Accurac	ity: +/-0.4% I linearity: +/ I linearity: +/ I linearity: +/ but Off: Off. M kimum Voltag I or dry conta te: On. Local: 6V or short, ote: 0~0.6V aximum sink but voltage =	of rated lout0.5% of rated -0.5%	ge: 30V, Maxi num Sink Curr ~0.6V or shor Voltage: 30V, Isen. User select 1: 2~30V or oa	rent: 10mA. rt. Local: 2~3 Maximum Sink rtable logic. pen. 27V zener)	60V or open. Current: 10
1. Vout voltage programming 2. lout voltage programming (*15) 3. Vout resistor programming (*15) 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—100%, 0— 0—100%, 0— 0—100%, 0— 0—5V or 0— 0—5V or 0— Power supply CV/CC Monitt Enable/Disabl Analogue prog Enable/Disabl Two open dra Maximum low trigger: tw = 1 By electrical N	-5V or 0— -5/10Kohm -5/10Kohm 10V, user s 10V, user s v output mo or. Open co le analogue gramming co le PS outpu le PS outpu in program v level inpu 10us minim Voltage: 0— 0V (500ohn	10V, user selen full scale, user full scale. Accelectable. Accelectable. Accelectable. Accelectable full scale fu	ectable. Accur ser selectable ser selectable curacy: +/-0. curacy: +/-0. pllector. Outpu node: On. CV r g control by e signal. Open o l signal or dry l signal or dry s. Maximum v v. 8V, Minimum us Maximum, v or dry conta	acy and linear Accuracy and Accuracy and Solution: Accuracy and Accura	ity: +/-0.4% Il linearity: +/ Il lineari	of rated lout. -0.5% of rated -0.5%	ge: 30V, Maxi num Sink Curr ~0.6V or shor Voltage: 30V, Isen. User select 1: 2~30V or oa	rent: 10mA. rt. Local: 2~3 Maximum Sink rtable logic. pen. 27V zener)	60V or open Current: 10
1. Vout voltage programming 2. lout voltage programming (*15) 3. Vout resistor programming (*15) 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 3. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 10. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal Functions and Features 1. Parallel operation		0—100%, 0— 0—100%, 0— 0—100%, 0— 0—100%, 0— 0—5V or 0— 0—5V or 0— Power supply CV/CC Monitt Enable/Disabl Analogue prog Enable/Disabl Two open dra Maximum low trigger: tw=1 By electrical V 4—5V=0K, 0	-5V or 0— -5/10Kohm -5/10Kohm 10V, user s 10V, user s v output mo or. Open co le analogue gramming co le PS outpu le PS outpu jin program v level inpu lous minim Voltage: 0— 0V (500ohn to 4 identic	10V, user selen full scale, user full scale. Accelectable. Accelectable. Accelectable. Accelectable full scale fu	ectable. Accur ser selectable ser selectable curacy: +/-0. curacy: +/-0. pllector. Outpu node: On. CV r g control by e signal. Open o l signal or dry l signal or dry s. Maximum v v. 8V, Minimum us Maximum, v or dry conta	acy and linear Accuracy and Accuracy and Solution: Accuracy and Accura	ity: +/-0.4% Il linearity: +/ Il lineari	of rated lout. -0.5% of rated -0.5%	ge: 30V, Maxi num Sink Curr ~0.6V or shor Voltage: 30V, Isen. User select 1: 2~30V or oa	rent: 10mA. rt. Local: 2~3 Maximum Sink rtable logic. pen. 27V zener)	00V or open Current: 10
1. Vout voltage programming 2. lout voltage programming (*15) 3. Vout resistor programming (*15) 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_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal Functions and Features 1. Parallel operation 2. Series operation		0—100%, 0— 0—100%, 0— 0—100%, 0— 0—100%, 0— 0—5V or 0— 0—5V or 0— Power supply CV/CC Monitit Enable/Disabl Analogue prog Enable/Disabl Two open dra Two open dra By electrical v 4—5V=0K, 0 Possible. Up Possible. Two	-5V or 05/10Kohm -5/10Kohm 10V, user s 10V, user s 10V, user s voutput mo or. Open co le analogue gramming co le PS outpu le PS outpu lin program v level inpu 0 us minim Voltage: 0 0 V (500ohn to 4 identical L	10V, user selen full scale, user full scale. Accepted to the selectable. Accepted full scale full scal	ectable. Accur ser selectable ser selectable curacy: +/-0. curacy: +/-0. billector. Outpu node: On. CV r g control by e signal. Open of l signal or dry l signal or dry l signal or dry s. Maximum v v. 8V, Minimum us Maximum, v or dry conta l = Fail aster/Slave me instruction m	acy and linear Accuracy and Accuracy and Solution: On. Out mode: Off. Mai lectrical signa collector. Remo contact. 0~C contact. Rem politage 25V, M high level inp Min delay ben ct. de. Refer to in anual.	ity: +/-0.4% I linearity: +/ I	of rated lout. 7-0.5% of rated	ge: 30V, Maxi num Sink Curr ~0.6V or shor Voltage: 30V, Isen. User select 1: 2~30V or oa	rent: 10mA. rt. Local: 2~3 Maximum Sink rtable logic. pen. 27V zener)	00V or open Current: 10
. Vout voltage programming 2. lout voltage programming (*15) 3. Vout resistor programming (*15) 5. Output voltage monitor 6. Output voltage monitor 6. Output current monitor (*15) 6. Output current monitor (*16) 6. CAL/REMOTE Analogue control 7. CAL/REMOTE Analogue signal 8. INTERLOCK (ILC) control 7. Programmed signal 8. TRIGGER IN / TRIGGER OUT signal 9. DAISY_IN/SO control signal 9. DAISY_IN/SO control signal 9. DAISY_OUT/PS_OK #2 signal 6. Unctions and Features 9. Parallel operation 9. Series operation 9. Daisy chain		0—100%, 0— 0—100%, 0— 0—100%, 0— 0—100%, 0— 0—5V or 0— 0—5V or 0— 0—5V or 0— Enable/Disabl Analogue prog Enable/Disabl Two open dra Maximum low trigger: tw=1 By electrical V 4—5V=OK, 0 Possible. Up Possible. Two Power supplie	-5V or 05/10Kohm -5/10Kohm 10V, user s 10V, user s 10V, user s voutput mo or. Open co le analogue gramming co le PS output in program v level inpu 10us minim Voltage: 0 0V (500ohm to 4 identical L es can be c	10V, user selen full scale, user full scale. Accelectable. Accelectable. Accelectable. Accelectable. Accelectable side of the scale signals at voltage = 0 uum. Tr, Tf = 1 to = 0.6 V/2 ~ 30 to mimpedance) cal units in Maunits. Refer to onnected in E	ectable. Accur ser selectable ser selectable curacy: +/-0. curacy: +/-0. billector. Outpu node: On. CV r g control by e signal. Open of l signal or dry l signal or dry l signal or dry s. Maximum v s. Maximum v s. Maximum, v or dry conta l = Fail aster/Slave mo instruction m Daisy chain to	acy and linear Accuracy and Accuracy and Accuracy and Solution. Out Mode: Off. Mat lectrical signa collector. Remo contact. 0 ~ C contact. Rem bildage 25V, M high level inp Min delay bete ct. bde. Refer to in anual. synchronize the	ity: +/-0.4% I linearity: +/ I	of rated lout. 1-0.5% of rated 1-0.5% of rate	ge: 30V, Maxi num Sink Curr ~0.6V or shor Voltage: 30V, en. User selec l: 2~30V or o A (Shunted by um high level i	ent: 10mA. rt. Local: 2~3 Maximum Sink stable logic. spen. 27V zener) input = 5V po	00V or open Current: 10
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Specifications GENESYS+ $^{\text{\tiny TM}}$ G (3.4kW)

Output Rating	G	10-340	20-170	30-112	40-85	60-56	80-42	100-34	150-22.5	300-11.5	600-5.
1. Rated output voltage(*1)	V	10	20	30	40	60	80	100	150	300	600
2. Rated output current (*2)	A	340 (*3)	170	112	85	56	42	34	22.5	11.5	5.6
3. Rated output power	W	3400	3400	3360	3400	3360	3360	3400	3375	3450	3360
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	00V models: 3 80V models: 3	70~265Vac, 42~460Vac, 42~528Vac, 70~265Vac,	47~63Hz (C 47~63Hz (C	overs 380/400 overs 380/400	0/415Vac) 0/415/440/46				
2. Maximum Input current at 100% load				2.5A @ 200V 1A @ 200Va		e, 400V mode	ls: 6.5A @ 3	80Vac 3-P	hase, 480V mo	dels: 6.5A @	380Vac
3. Power Factor (Typ)		For 3-Phase	: 0.94 @ 200	0/380Vac, rate	d output pow	er. For 1-Phas	se: 0.99 @ 2	00Vac, rated (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)A								
Constant Voltage Mode	V	10	20	30	40	60	80	100	150	300	600
1. Max. Line regulation (*7)		0.01% of rat	ted output vol	tage	1						
2. Max. Load regulation (*8)			ted output vol	•							
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			put voltage, fo				10	20	00	100
5. Temperature stability				8hrs interval f			•	line load 9 to	nmn		
									emp.		
7. Warm-up drift				output voltage		1			E	E	E
8. Remote sense compensation/wire (*10)	٧	2	2	5	5	5	5	5	5	5	5
9. Up-prog. Response time (*11)	mS	30	30	30	30	50	50	50	50	50	100
10. Down-prog.response time: Full load (*11)		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	Output set-p	oint: 10~100						of rated output OV. 2mS, for m		00V.
12. Start up delay	Sec	Less than 6	1	1							
Constant Current Mode	V	10	20	30	40	60	80	100	150	300	600
1. Max. Line regulation (*7)		0.05% of rat	ted output cur	rent.							
2. Max. Load regulation (*13)		0.08% of rat	ted output cur	rent.							
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 fr	om rated outp	ut current, fo	llowing 30 mi	nutes warm-up).	
6. Temperature stability		0.01% of rat	ed lout over 8	3hrs. interval fo	ollowing 30 n	ninutes warm-	up. Constant	line, load & te	emperature.		
7. Warm-up drift					-		•		er 30 minutes f	ollowing powe	er on.
Analogue Programming and Monitoring (Isolate	ed from th			,		,				31.	
1. Vout voltage programming			~5V or 0~1	OV, user selec	table Accura	cv and linearit	v· +/-0 15%	of rated Vout			
2. lout voltage programming (*15)				OV, user selec		•	•		•		
3. Vout resistor programming				full scale, use			-		Vout		
4. lout resistor programming (*15)		,		full scale, use							
5. Output voltage monitor				electable. Acci			iiioaiity. 17	0.570 01 14100	Tout.		
			TOV, USEI SE	icciable. Acci	JIAUY. ⊤/-U.U	1/0.					
6 Output current monitor (*15)			10\/ uear ea	lactable Acci	ıracv: ⊥/_0 F	9/.					
		0~5V 0r U-	-10V, user se	electable. Acci	uracy: +/-0.5	%.					
Signals and Controls (Isolated from the Output)							ut Off. Off Me	ovimum Voltor	no: 20\/ Maxim	Sink Curr	ont: 10m/
Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal		Power suppl	ly output mon	itor. Open col	lector. Output	On: On. Outp			ge: 30V, Maxim		ent: 10m/
Signals and Controls (Isolated from the Output) 1. Power supply OK #1 signal 2. CV/CC signal		Power suppl	ly output mon itor. Open col	itor. Open col lector. CC mo	lector. Output de: On. CV m	On: On. Outpode: Off. Maxi	mum Voltage	: 30V, Maxim	um Sink Currei	nt: 10mA.	
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 Moni Enable/Disal	ly output mon itor. Open col ble analogue	itor. Open col lector. CC mo programming	lector. Output de: On. CV m control by ele	On: On. Outp ode: Off. Maxi ectrical signal	mum Voltage or dry contac	: 30V, Maxim t. Remote: 0~	um Sink Currer ~0.6V or short.	nt: 10mA. Local: 2~30	V or open
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 Moni Enable/Disal Analogue pro	ly output mon itor. Open col ble analogue ogramming co	itor. Open col lector. CC mo programming ntrol monitor s	lector. Output de: On. CV m control by ele ignal. Open co	On: On. Outp ode: Off. Maxi ectrical signal illector. Remot	mum Voltage or dry contac e: On. Local: (:: 30V, Maxim t. Remote: 0- Off. Maximum	um Sink Currer -0.6V or short. Voltage: 30V, M	nt: 10mA. Local: 2~30 aximum Sink 0	V or open
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 Moni Enable/Disal Analogue pro Enable/Disal	ly output mon itor. Open col ble analogue ogramming co ble PS output	itor. Open col lector. CC mo programming ntrol monitor s by electrical :	lector. Output de: On. CV m control by ele ignal. Open co signal or dry o	On: On. Outpode: Off. Maxiectrical signal ellector. Remote contact. 0~0.	mum Voltage or dry contac e: On. Local: 0 6V or short, 2	e: 30V, Maxim et. 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 open
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 Moni Enable/Disal Analogue pro Enable/Disal Enable/Disal	ly output mon itor. Open col ble analogue ogramming co ble PS output ble PS output	itor. Open col lector. CC mo programming ntrol monitor s by electrical s by electrical s	lector. Output de: On. CV m control by ele ignal. Open co signal or dry o	On: On. Outpode: Off. Maxiectrical signal ellector. Remote contact. 0~0.	mum Voltage or dry contac e: On. Local: 0 6V or short, 2 te: 0~0.6V o	e: 30V, Maxim et. Remote: 0- Off. Maximum v 2-30V or ope er short. Local	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 ıble logic. en.	V or open
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 Moni Enable/Disal Analogue pro Enable/Disal Enable/Disal Two open dr	ly output mon itor. Open col ble analogue ogramming co ble PS output ble PS output rain programn	itor. Open col lector. CC mo programming ntrol monitor s by electrical s by electrical s nable signals.	lector. Output de: On. CV m control by ele ignal. Open co signal or dry o Maximum vo	On: On. Outpode: Off. Maxicectrical signal ellector. Remote contact. 0~0. contact. Remodatage 25V, Ma	mum Voltage or dry contact e: On. Local: (6V or short, 2 te: 0~0.6V o ximum sink c	e: 30V, Maxim et. 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. 27V zener)	V or open Current: 10
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 Moni Enable/Disal Analogue pro Enable/Disal Two open dr Maximum lo	ly output mon itor. Open col ble analogue ogramming co ble PS output ble PS output rain programn ow level input	itor. Open col lector. CC mo programming ntrol monitor s by electrical s by electrical s nable signals. voltage = 0.8	lector. Output de: On. CV m control by ele ignal. Open co signal or dry o Maximum vo BV,Minimum I	On: On. Outpoode: Off. Maxiectrical signal ellector. Remotecontact. 0~0. contact. Remoltage 25V, Manigh level input	mum Voltage or dry contact e: On. Local: 0 6V or short, 2 te: 0~0.6V of ximum sink of try voltage = 2	e: 30V, Maxim tt. Remote: 0~ Off. Maximum \cdot 2~30V or ope or short. Local current 100mA 2.5V, Maximu	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. 27V zener)	V or open Current: 10
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		Power suppl CV/CC Moni Enable/Disal Analogue pro Enable/Disal Two open dr Maximum lo trigger: tw=	ly output mon itor. Open col ble analogue ogramming co ble PS output ble PS output rain programn ow level input 10us minimu	itor. Open col lector. CC mo programming ntrol monitor s by electrical s by electrical s nable signals. voltage = 0.8 im. Tr,Tf=1us	lector. Output de: On. CV m control by ele ignal. Open co signal or dry of Maximum vo BV,Minimum I Maximum, N	On: On. Outpode: Off. Maxiectrical signal ellector. Remote contact. 0~0. contact. Remotage 25V, Manigh level inputin delay betw	mum Voltage or dry contact e: On. Local: 0 6V or short, 2 te: 0~0.6V of ximum sink of try voltage = 2	e: 30V, Maxim tt. Remote: 0~ Off. Maximum \cdot 2~30V or ope or short. Local current 100mA 2.5V, Maximu	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. 27V zener)	V or open Current: 10
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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 Moni Enable/Disal Analogue pro Enable/Disal Two open dr Maximum lo trigger: tw= By electrical 4~5V=0K,	ly output mon itor. Open col ble analogue ogramming co ble PS output ble PS output rain programn ow level input 10us minimu I Voltage: 0~, 0V (500ohm	itor. Open col lector. CC mo programming ntrol monitor s by electrical : by electrical : nable signals. voltage = 0.8 im. Tr,Tf=1us 0.6V/2~30V	lector. Output de: On. CV m control by ele ignal. Open cc signal or dry c signal or dry Maximum vo Maximum, N Maximum, N or dry contac'	On: On. Outpode: Off. Maxicetrical signal ellector. Remote contact. 0~0. contact. Remote ltage 25V, Manigh level inpution delay between	mum Voltage or dry contac e: On. Local: 0 6V or short, 2 te: 0~0.6V o ximum sink o it voltage = 2 een 2 pulses	e: 30V, Maximum t.t. Remote: 0- Dff. Maximum t	um Sink Currer -0.6V or short. Voltage: 30V, M en. User selecta : 2~30V or op a (Shunted by 2	nt: 10mA. Local: 2~30' aximum Sink C ble logic. en. 27V zener)	V or oper Current: 10
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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 3. 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 Moni Enable/Disal Analogue pro Enable/Disal Two open dr Maximum lo trigger: tw= By electrical 4~5V=OK, Possible. Up Possible. Tw Power suppl Limits the out	ly output mon itor. Open col ble analogue ogramming co ble PS output ble PS output rain programn ow level input 10us minimu I Voltage: 0~, 0V (500ohm ot o 4 identical ur lies can be coutput power to	itor. Open collector. CC mo programming ntrol monitor s by electrical : by electrical : nable signals. voltage = 0.8 im. Tr,Tf=1us 0.6V/2~30V impedance) = al units in Mas nits. Refer to in innected in Da o a programme	lector. Output de: On. CV m control by ele ignal. Open cc signal or dry v signal or dry Maximum vo 3V, Minimum I Maximum, N or dry contac =Fail ter/Slave mod nistruction ma isy chain to s ed value. Prog	On: On. Outpode: Off. Maxicctrical signal ellector. Remotontact. 0~0.0 contact. Remoditage 25V, Manigh level inpution delay between the contact. Refer to insure the gramming via	mum Voltage or dry contac e: On. Local: (6V or short, 2 te: 0~0.6V o ximum sink o ten 2 pulses struction man	e: 30V, Maximut. Remote: 0- Dff. Maximum \(2-30V \) or ope or short. Local current 100m\(2.5V \), Maximu 1ms. ual. d turn-off. cation ports o	um Sink Currer - 0.6V or short. Voltage: 30V, M - in. User selecta - 2 ~ 30V or op - (Shunted by 2 - m high level in	nt: 10mA. Local: 2~30 aximum Sink C aximum Sink C ble logic. en. VV zener) put = 5V pos	V or oper Current: 10
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 Moni Enable/Disal Analogue pro Enable/Disal Two open dr Maximum lo trigger: tw= By electrical 4~5V=OK, Possible. Up Possible. Tw Power suppl Limits the ou	ly output mon itor. Open col ble analogue ogramming co ble PS output ble PS output rain programn ow level input 10us minimu I Voltage: 0~, 0V (500ohm ot o 4 identical ur lies can be coutput power to ries resistance	itor. Open collector. CC mo programming ntrol monitor s by electrical : by electrical : nable signals. voltage = 0.8 im. Tr,Tf=1us 0.6V/2~30V impedance) = al units in Mas nits. Refer to in nnected in Da o a programme e. Resistance	lector. Output de: On. CV m control by ele ignal. Open cc signal or dry v signal or dry w Maximum vo 3V, Minimum I Maximum, N or dry contac =Fail ter/Slave mod isy chain to s ed value. Prog range: 1~10	On: On. Outpode: Off. Maxicctrical signal ellector. Remotontact. 0~0.0 contact. Remotontact. Refer to insurance the gramming via 1000mΩ. Programming via 1000mΩ.	mum Voltage or dry contace: On. Local: (6V or short, 2 te: 0~0.6V or short, 2 te: 0~0.6V or short, 2 een 2 pulses estruction man the communi amming via ti	e: 30V, Maximut. Remote: 0- Dff. Maximum \(2-30V \) or ope or short. Local current 100m/P 2.5V, Maximu 1ms. d turn-off. cation ports one communic.	um Sink Currer -0.6V or short. Voltage: 30V, M	nt: 10mA. Local: 2~30 aximum Sink C aximum Sink C ble logic. en. VV zener) put = 5V pos	V or open Current: 10
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 8. Daisy chain 4. Constant power control 5. Output resistance control		Power suppl CV/CC Moni Enable/Disal Analogue pro Enable/Disal Two open dr Maximum lo trigger: tw= By electrical 4~5V=OK, Possible. Up Possible. Tw Power suppl Limits the ou Emulates se Programmat	ly output mon itor. Open col ble analogue ogramming co ble PS output ble PS output rain programn ow level input 10us minimu I Voltage: 0 ~, 0V (5000hm or to 4 identical un ilies can be coutput power to tries resistance ble Output rise	itor. Open collector. CC mo programming ntrol monitor s by electrical : by electrical : nable signals. voltage = 0.8 im. Tr,Tf=1us 0.6V/2~30V impedance) = al units in Mas nits. Refer to in innected in Da o a programme	lector. Output de: On. CV m control by ele ignal. Open co signal or dry o signal or dry o Maximum vo Maximum, N or dry contact =Fail ter/Slave mod astruction ma isy chain to s ad value. Prog range: 1~10 all slew rate.	On: On. Outpode: Off. Maxicetrical signal elector. Remote contact. 0~0. Contact. Remote lage 25V, Manigh level inpution delay between the contact. Remote lage 25V, Manigh level inpution delay between the contact. Refer to insure the contact in t	mum Voltage or dry contace: On. Local: (6V or short, 2 te: 0~0.6V or short, 2 te: 0~0.6V or short, 2 een 2 pulses estruction man the communi amming via ti	e: 30V, Maximut. Remote: 0- Dff. Maximum \(2-30V \) or ope or short. Local current 100m/P 2.5V, Maximu 1ms. d turn-off. cation ports one communic.	um Sink Currer -0.6V or short. Voltage: 30V, M	nt: 10mA. Local: 2~30 aximum Sink C aximum Sink C ble logic. en. VV zener) put = 5V pos	V or open Current: 10
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 6. Slew rate control		Power suppl CV/CC Moni 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 ot Emulates se Programmat Programmin	ly output mon itor. Open col ble analogue ogramming co ble PS output ble PS output rain programn ow level input 10us minimu I Voltage: 0~, 0V (5000hm o to 4 identical ur lies can be coutput power terries resistance ble Output rising via the com	itor. Open col lector. CC mo programming ntrol monitor s by electrical shable signals. voltage = 0.8 m. Tr,Tf=1us 0.6V/2~30V impedance) = al units in Mas nits. Refer to in innected in Dato a programme. Resistance e and Output famunication points.	lector. Output de: On. CV m control by ele ignal. Open co signal or dry o signal or dry o Maximum vo Maximum, N or dry contact =Fail ter/Slave mod sisy chain to s dd value. Prog range: 1~1(all slew rate. orts or the fro	On: On. Outpode: Off. Maxicctrical signal elector. Remote contact. 0~0. Contact. Remote lage 25V, Manigh level inpution delay between the contact. Remote lage 25V and lage level inpution delay between the contact. Remote lage 25V, Manigh level inpution delay between lage lage lage lage lage lage lage lage	mum Voltage or dry contace: On. Local: (6V or short, 2 te: 0~0.6V or	e: 30V, Maxim tt. Remote: 0- Off. Maximum tt30V or ope or short. Local urrent 100m 2.5V, Maximu 1ms. ual. d turn-off. cation ports o ne communic. 1~999.99V/r	um Sink Currer -0.6V or short. Voltage: 30V, M	nt: 10mA. Local: 2~30' laximum Sink C lble logic. en. 27V zener) put = 5V pos el. lel. he front panel.	V or open Current: 10
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Specifications GENESYS+ $^{\text{\tiny TM}}$ G (5kW)

	G	10-500	20-250	30-170	40-125	50-100	60-85	80-65	100-50	150-34	200-25	300-17	400-13	500-10	600-8
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,	47~63Hz	(Covers	880/400/4	15Vac)	60/480Vac	:)				
2. Maximum Input current at 100% load		3-Phase,	400V mo	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	1 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	rated out	put voltage	9										
2. Max. Load regulation (*8)		0.01% of	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	PPM/°C	50PPM/°	C from ra	ted output	voltage, fo	llowing 3) minutes	warm-up.							
6. Temperature stability				ut over 8hr					Constant	line, load	& temp.				
7. Warm-up drift				f rated out											
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 vol	tage to red 0~100%,	over withi	n 0.5% of	its rated o	utput for a	load chan	ige 10~90	0% of rate	d output cu	urrent.		0000
12. Start up delay	Sec	Less than	1 5 Sec												
Constant Current Mode	V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1. Max. Line regulation (*7)		0.05% of	rated out	put curren	t.										
2. Max. Load regulation (*13)		0.08% of	rated out	put curren	t.										
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	ed output	current, fo	llowing 30) minutes	warm-up.			
5. Temperature stability				t over 8hrs											
6. Warm-up drift		10V~10	0V: Less t	han +/-0.2	25%, 150V	∕~600V: L	ess than +	-/-0.15% (of rated ou	tput curren	it over 30 r	ninutes fol	lowing pov	wer on.	
Analogue Programming and Monitoring (Iso	lated fror	n the Out	put)												
Vout voltage programming				or 0~10V,											
2. lout voltage programming (*15)		0~100%	6, 0∼5V c	or 0~10V,	user selec	ctable. Acc	uracy and	linearity:	+/-0.4%	of rated lo	ut.				
3. Vout resistor programming		0~100%	6, 0~5/10	Kohm full	scale, use	er selectab	le. Accura	cy and lin	earity: +/-	-0.5% of ra	ated Vout.				
4. lout resistor programming (*15)		0~100%	6, 0~5/10)Kohm full	scale, use	er selectab	le. Accura	cy and lin	earity: +/-	-0.5% of ra	ated lout.				
		0~5V or	0~10V,	user selec	table. Accı	,									
5. Output voltage monitor						uracy: +/-	0.5% of ra	ited Vout.							
Output voltage monitor Output current monitor (*15)		0~5V or	0~10V,	user selec	table. Acci										
		0~5V or	0~10V,	user selec	table. Acci										
6. Output current monitor (*15)				user selec ut monitor		uracy: +/-	0.5% of ra	ated lout.	Off: Off. Ma	aximum Vo	oltage: 30\	/, Maximu	m Sink Cu	rrent: 10m	ıA.
6. Output current monitor (*15) Signals and Controls (Isolated from the Outp	 put)	Power su	ipply outp		. Open col	uracy: +/-	0.5% of ra	ated lout. n. Output (rrent: 10m	ıA.
6. Output current monitor (*15) Signals and Controls (Isolated from the Outp 1. Power supply OK #1 signal	 put)	Power su	ipply outp Ionitor. Op	ut monitor	. Open col or. CC mo	lector. Ou ode: On. C'	0.5% of raput On: 0 / mode: 0	nted lout. n. Output (ım Voltage	e: 30V, Ma	ximum Sir	nk Current:	10mA.		
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	 put) 	Power su CV/CC M Enable/D	ipply outp Ionitor. Op isable and	ut monitor oen collect	. Open col or. CC mo gramming	lector. Ou ode: On. C' control by	0.5% of raput On: 0 / mode: 0	n. Output (ff. Maximu signal or	ım Voltage dry contac	e: 30V, Ma ct. Remote	ximum Sir : 0~0.6V	nk Current: or short. L	: 10mA. .ocal: 2~3	80V or ope	n.
6. Output current monitor (*15) Signals and Controls (Isolated from the Outp 1. Power supply OK #1 signal 2. CV/CC signal	 put) 	Power su CV/CC M Enable/D Analogue	ipply outp Ionitor. Op isable and programn	ut monitor pen collect	. Open col or. CC mo gramming I monitor s	lector. Ou ode: On. C' control by signal. Ope	put On: 0 / mode: 0 relectrical	n. Output (ff. Maximu signal or Remote: (ım Voltage dry contac)n. Local: (e: 30V, Ma ct. Remote Off. Maximu	ximum Sir : 0~0.6V um Voltage	nk Current: or short. L :: 30V, Max	: 10mA. ocal: 2~3 timum Sink	80V or ope	n.
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	 put) 	Power su CV/CC M Enable/D Analogue Enable/D	ipply outp fonitor. Op isable and programn isable PS	ut monitor pen collect alogue pro ning contro	. Open col or. CC mo gramming I monitor s electrical	lector. Ou ode: On. C' control by signal. Ope	put On: O / mode: O / electrical n collector lry contact	n. Output (ff. Maximu signal or Remote: 0 . 0~0.6V	um Voltage dry contac On. Local: (or short, 2	e: 30V, Ma et. Remote Off. Maximu 2~30V or	ximum Sir : 0~0.6V um Voltage open. Use	nk Current: or short. L :: 30V, Max r selectabl	: 10mA. ocal: 2~3 simum Sink le logic.	80V or ope	n.
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	put)	Power su CV/CC M Enable/D Analogue Enable/D	ipply outp flonitor. Op isable and programn isable PS	ut monitor pen collect alogue pro ning contro output by	. Open collector. CC mogramming I monitor selectrical	lector. Ou de: On. C' control by signal. Ope signal or c	put On: 0 / mode: 0 / electrical n collector ry contact	n. Output (ff. Maximu signal or Remote: (. 0~0.6V . Remote:	um Voltage dry contact On. Local: 0 or short, 2 0~0.6V o	e: 30V, Ma et. Remote Off. Maximu 2~30V or or short. Lo	ximum Sir : 0~0.6V um Voltage open. Use ocal: 2~30	nk Current: or short. L : 30V, Max r selectabl OV or open	: 10mA. ocal: 2~3 timum Sink le logic. n.	80V or ope	n.
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	put)	Power su CV/CC M Enable/D Analogue Enable/D Enable/D Two open	ipply outp fonitor. Op isable and programn isable PS isable PS n drain pro	ut monitor pen collect alogue pro- ning contro output by output by	. Open collor. CC mogramming I monitor selectrical electrical le signals.	lector. Ou ode: On. C' control by signal. Ope signal or c Maximum	put On: O / mode: O / electrical n collector ry contact voltage 2	n. Output (ff. Maximu signal or Remote: (. 0~0.6V . Remote: 5V, Maximu	um Voltage dry contact On. Local: (or short, 2 0~0.6V on num sink c	e: 30V, Ma et. Remote Off. Maximu 2~30V or or short. Lo current 100	ximum Sir : 0~0.6V um Voltage open. Use ocal: 2~30 0mA (Shur	nk Current: or short. L :: 30V, Max r selectabl DV or open nted by 27	: 10mA. ocal: 2~3 timum Sink le logic. n. V zener)	30V or ope Current: 1	n. OmA.
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	put)	Power su CV/CC M Enable/D Analogue Enable/D Enable/D Two oper Maximum	ipply outp fonitor. Op isable and programn isable PS isable PS n drain pro n low leve	ut monitor pen collect alogue pro- ning contro output by output by ogrammab	or. CC mogramming I monitor selectrical electrical le signals.	lector. Ou de: On. C' control by ignal. Ope signal or c Maximum 3V,Minimum	put On: 0 / mode: 0 / mode: 0 / electrical n collector lry contact ry contact voltage 2 m high le	n. Output (ff. Maximusignal or Remote: 0 . 0~0.6V . Remote: 5V, Maximusel input velinput vel	um Voltage dry contact On. Local: (or short, 2 0~0.6V conum sink cooltage = 2	e: 30V, Ma et. Remote Off. Maximu 2~30V or or short. Lo current 100	ximum Sir : 0~0.6V um Voltage open. Use ocal: 2~30 0mA (Shur	nk Current: or short. L :: 30V, Max r selectabl DV or open nted by 27	: 10mA. ocal: 2~3 timum Sink le logic. n. V zener)	30V or ope Current: 1	n. OmA.
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	put)	Power su CV/CC N Enable/D Analogue Enable/D Two oper Maximun tw=10us	ipply outp Monitor. Opi isable and programn isable PS isable PS n drain pro n low leve s minimur	ut monitor pen collect alogue pro- ning contro output by output by ogrammab	or. Open collor. CC mogramming I monitor s electrical electrical le signals. tage = 0.8 us Maxim	lector. Ou ode: On. C' control by signal. Ope signal or c signal or c Maximum BV,Minimu um, Min d	put On: 0 / mode: 0 / mode: 0 / electrical n collector rry contact ry contact voltage 2 m high le elay between	n. Output (ff. Maximusignal or Remote: 0 . 0~0.6V . Remote: 5V, Maximusel input velinput vel	um Voltage dry contact On. Local: (or short, 2 0~0.6V conum sink cooltage = 2	e: 30V, Ma et. Remote Off. Maximu 2~30V or or short. Lo current 100	ximum Sir : 0~0.6V um Voltage open. Use ocal: 2~30 0mA (Shur	nk Current: or short. L :: 30V, Max r selectabl DV or open nted by 27	: 10mA. ocal: 2~3 timum Sink le logic. n. V zener)	30V or ope Current: 1	n. OmA.
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	put)	Power su CV/CC M Enable/D Analogue Enable/D Two oper Maximun tw=10us By electr	ipply outp fonitor. Opisable and programn programn programn programn programn isable PS n drain program n low leve s minimur ical Volta	ut monitor pen collect alogue pro ning contro output by output by ogrammab ! input vol' n. Tr,Tf=1	Open collor. CC mogramming I monitor selectrical electrical le signals. tage = 0.8 was Maximut/2~30V	lector. Ou ode: On. C' control by signal. Ope signal or c Maximum BV, Minimuum, Min d or dry con	put On: 0 / mode: 0 relectrical n collector ry contact ry contact voltage 2 m high le elay between	n. Output (ff. Maximusignal or Remote: 0 . 0~0.6V . Remote: 5V, Maximusel input velinput vel	um Voltage dry contact On. Local: (or short, 2 0~0.6V conum sink cooltage = 2	e: 30V, Ma et. Remote Off. Maximu 2~30V or or short. Lo current 100	ximum Sir : 0~0.6V um Voltage open. Use ocal: 2~30 0mA (Shur	nk Current: or short. L :: 30V, Max r selectabl DV or open nted by 27	: 10mA. ocal: 2~3 timum Sink le logic. n. V zener)	30V or ope Current: 1	n. OmA.
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	put)	Power su CV/CC M Enable/D Analogue Enable/D Two oper Maximun tw=10us By electr	ipply outp fonitor. Opisable and programn programn programn programn programn isable PS n drain program n low leve s minimur ical Volta	ut monitor pen collect alogue pro ning contro output by output by ogrammab il input vol n. Tr,Tf=1 pe: 0~0.6	Open collor. CC mogramming I monitor selectrical electrical le signals. tage = 0.8 was Maximut/2~30V	lector. Ou ode: On. C' control by signal. Ope signal or c Maximum BV, Minimuum, Min d or dry con	put On: 0 / mode: 0 relectrical n collector ry contact ry contact voltage 2 m high le elay between	n. Output (ff. Maximusignal or Remote: 0 . 0~0.6V . Remote: 5V, Maximusel input velinput vel	um Voltage dry contact On. Local: (or short, 2 0~0.6V conum sink cooltage = 2	e: 30V, Ma et. Remote Off. Maximu 2~30V or or short. Lo current 100	ximum Sir : 0~0.6V um Voltage open. Use ocal: 2~30 0mA (Shur	nk Current: or short. L :: 30V, Max r selectabl DV or open nted by 27	: 10mA. ocal: 2~3 timum Sink le logic. n. V zener)	30V or ope Current: 1	n. OmA.
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	put)	Power su CV/CC M Enable/D Analogue Enable/D Two oper Maximum tw=10us By electr 4~5V=1	ipply outp fonitor. Opisable and programn isable PS isable PS n drain pro n low leves s minimur ical Voltag OK, OV (5	ut monitor pen collect alogue pro ning contro output by output by ogrammab il input vol n. Tr,Tf=1 pe: 0~0.6	Open color. CC mogramming I monitor s electrical electrical le signals. tage = 0.8 us Maxim V/2~30V pedance) =	lector. Ou de: On. C' control by ignal. Ope signal or c signal or c Maximum BV,Minimu um, Min d or dry con =Fail	put On: 0 / mode: 0 / mode: 0 / electrical n collector lry contact ry contact voltage 2 m high le elay between	n. Output (ff. Maximusignal or Remote: 0. 0~0.6V . Remote: 5V, Maximusel input vel	um Voltage dry contact On. Local: () or short, 2 0~0.6V o num sink c oltage = 2 es 1ms.	e: 30V, Ma st. Remote Dff. Maximu 2~30V or or short. Lc current 10C 2.5V, Maxi	ximum Sir : 0~0.6V um Voltage open. Use ocal: 2~3I DmA (Shur imum high	nk Current: or short. L :: 30V, Max r selectabl DV or oper atted by 27'	: 10mA. ocal: 2~3 cocal: 2~3 cimum Sink le logic. n. V zener) ut = 5V po	80V or ope Courrent: 1	n. OmA. e trigge
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	put)	Power su CV/CC M Enable/D Analogue Enable/D Two oper Maximun tw=10us By electr 4~5V=	ipply outp fonitor. Opisable and programmisable PS risable PS n drain pron low leves s minimur ical Voltag OK, OV (5	ut monitor pen collect alogue pro- ning contro output by output by ogrammab ! input vol n. Tr,Tf=1 ge: 0~0.66	. Open colloor. CC mogramming I monitor s electrical electrical le signals. tage = 0.8 Maxim v/2~30V pedance) =	lector. Ou de: On. C' control by ignal. Ope signal or c signal or c Maximum BV,Minimum, Min d or dry con Fail	put On: 0 / mode: 0 / mode: 0 / electrical n collector lry contact lry contact voltage 2 m high le elay between tact.	n. Output (ff. Maximusignal or Remote: 0. 0~0.6V . Remote: 5V, Maximusel input vel	um Voltage dry contact On. Local: () or short, 2 0~0.6V o num sink c oltage = 2 es 1ms.	e: 30V, Ma st. Remote Dff. Maximu 2~30V or or short. Lc current 10C 2.5V, Maxi	ximum Sir : 0~0.6V um Voltage open. Use ocal: 2~3I DmA (Shur imum high	nk Current: or short. L :: 30V, Max r selectabl DV or oper atted by 27'	: 10mA. ocal: 2~3 cocal: 2~3 cimum Sink le logic. n. V zener) ut = 5V po	80V or ope Courrent: 1	n. OmA. e trigge
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	put)	Power su CV/CC M Enable/D Analogue Enable/D Two oper Maximun tw=10us By electr 4~5V= Possible.	ipply outp fonitor. Opisable and programn isable PS isable PS n drain pro n low leves s minimur ical Voltag OK, OV (5	ut monitor pen collect alogue pro ning contro output by output by pgrammab il input vol m. Tr,Tf=1 ge: 0~0.66 000hm im	Open color. CC mogramming I monitor selectrical electrical le signals. tage = 0.8 Maxim V/2~30V pedance) =	lector. Ou de: On. C' control by ignal. Ope signal or c signal or c Maximum BV,Minimum, Min d or dry con = Fail	put On: 0 / mode: 0 / mode: 0 / electrical n collector /ry contact	n. Output (ff. Maximu signal or Remote: 0 . 0~0.6V . Remote: 5V, Maxim vel input v een 2 puls	um Voltage dry contact On. Local: (or short, 2 0~0.6V c num sink c oltage = 2 es 1ms.	e: 30V, Maximut. Remote Off. Maximut. 2~30V or or short. Locurrent 1002.5V, Maximut. 2.5V, Maxim	ximum Sir : 0~0.6V m Voltage open. Use ocal: 2~3I)mA (Shur imum high	nk Current: or short. L :: 30V, Max r selectabl DV or oper atted by 27'	: 10mA. ocal: 2~3 cocal: 2~3 cimum Sink le logic. n. V zener) ut = 5V po	80V or ope Courrent: 1	n. OmA. e trigge
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	put)	Power su CV/CC M Enable/D Analogue Enable/D Two oper Maximun tw=10us By electr 4~5V= Possible. Power su	ipply outplonitor. Opisable and programmisable PS isable PS in drain programmisable progra	ut monitor pen collect alogue pro- ning contro- output by output by output vol- n. Tr,Tf=1 ge: 0~0.6' 000hm im elve (12) ic tical units n be conne	Open color. CC mogramming I monitor selectrical electrical le signals. tage = 0.8 waxim V/2~30V pedance) = dentical ur. Refer to i ected in Da	lector. Ou de: On. C' control by signal. Ope signal or c signal or c Maximum BV, Minimum, Min d or dry con = Fail hits in Mass nstruction aisy chain	put On: 0 / mode: 0 / mode: 0 / electrical n collector ry contact ry contact voltage 2 m high le elay betwee tact. ter/Slave i manual. to synchroi	n. Output (ff. Maximusignal or Remote: 0. 0~0.6V Remote: 5V, Maximusel input veen 2 pulse	um Voltage dry contac On. Local: (or short, 2 0~0.6V c num sink c oltage = 2 es 1ms.	e: 30V, Ma et. Remote Off. Maximu 2-30V or or short. Lo current 10C 2.5V, Maximu d turn-off.	ximum Sir : 0~0.6V m Voltage open. Use ocal: 2~30 DmA (Shur imum high	nk Current: or short. L :: 30V, Max r selectabl DV or oper nted by 27' I level inpu	: 10mA. ocal: 2~3 cocal: 2~3 cimum Sink le logic. n. V zener) ut = 5V po	80V or ope Courrent: 1	n. OmA. e trigge
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 4. Constant power control	put)	Power su CV/CC M Enable/D Analogue Enable/D Two oper Maximun tw=10us By electr 4~5V=I Possible. Power su Limits the	ipply outpolionitor. Opisable ana programmisable PS isable PS in drain programmisable programmisable PS in drain programmisable programmisabl	ut monitor pen collect alogue pro- ning contro- output by output by output vol- n. Tr,Tf=1 ge: 0~0.6' 000hm im elve (12) ic tical units n be conne- ower to a	Open color. CC mogramming I monitor selectrical electrical le signals. tage = 0.8 Maxim V/2~30V pedance) = dentical ur. Refer to i ected in Daprogramming or CC modernical mediana programming control con CC modernical control con CC modernical control con CC modernical control c	lector. Ou de: On. C' control by ignal. Ope signal or c signal or c Maximum BV, Minimum, Min d or dry con = Fail hits in Mas nstruction aisy chain ed value. I	put On: 0 / mode: 0 / mode: 0 / electrical n collector ry contact ry contact voltage 2 m high le elay betwee tact. ter/Slave i manual. to synchro Programm	n. Output (ff. Maximu. signal or Remote: 0. 0~0.6V . Remote: 5V, Maxim vel input v een 2 pulse mode. Refe	um Voltage dry contac On. Local: (or short, 2 0~0.6V c num sink c oltage = 2 es 1ms.	e: 30V, Maxim. ct. Remote Dff. Maxim. 2—30V or or short. Lc. current 100 2.5V, Maxim d turn-off. cation por	ximum Sir : 0~0.6V um Voltage open. Use coal: 2~30 mA (Shur imum high	nk Current: or short. L :: 30V, Max r selectabl OV or oper nted by 27' I level inpu	: 10mA. : coal: 2~3 :imum Sink le logic. : : V zener) : t = 5V po	80V or ope Current: 1 ositive edg	n. OmA. e trigge
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 4. Constant power control 5. Output resistance control	put)	Power su CV/CC M Enable/D Analogue Enable/D Two oper Maximun tw=10us By electr 4~5V= Possible. Power su Limits the Emulates Programi	ipply outp fonitor. Opisable and programmisable PS isable PS in drain pro in low leves s minimur ical Voltag OK, OV (5	ut monitor pen collect alogue pro- ning control output by output by output by or an in Tr,Tf = 1 ge: 0 ~ 0.6 go 000 hm im letve (12) id titical units in be conne- ower to a position.	Open color. CC mogramming I monitor selectrical electrical le signals. tage = 0.8 us Maxim V/2~30V pedance) = dentical ur. Refer to increte in Date or orgramming lesistance and Output f	lector. Ou de: On. C' control by ignal. Ope signal or of Maximum 3V, Minimum, Min do or dry con = Fail hits in Mass nstruction aisy chain ed value. I range: 1 ~ all slew ra	put On: O / mode: O / mode: O / electrical n collector lry contact voltage 2 m high le elay betwee tact. ter/Slave I manual. lo synchro Programm 1000mΩ te. Prograit	n. Output (ff. Maximusignal or Remote: (um Voltage dry contac On. Local: (or short, 2 0~0.6V c num sink c oltage = 2 es 1ms. er to instru turn-on an communi ming via tf	e: 30V, Maxim. 2-30V or or short. Locurrent 1002.5V, Maxim. d turn-off. cation por ne commune to commune to the commune to the commune	ximum Sir : 0~0.6V um Voltage open. Use coal: 2~3i umA (Shur imum high	ak Current: or short. L :: 30V, Max r selectabl OV or oper ited by 27' I level input ore power ont panel. orts or the	: 10mA. : coal: 2~3 :imum Sink le logic. : : V zener) : t = 5V po	80V or ope Current: 1 ositive edg	n. OmA. e trigge
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 4. Constant power control 5. Output resistance control 6. Slew rate control	put)	Power su CV/CC M Enable/D Analogue Enable/D Two oper Maximun tw = 10us By electr 4~5V= Possible. Power su Limits th Emulates Program Program	ipply outp fonitor. Opisable and programmisable PS isable PS n drain pro n low leves s minimur ical Voltaq OK, OV (5 . Up to two . Two iden ipplies can e output p is series re- mable Outming via t	ut monitor pen collect alogue pro- ning control output by output by output by or man believe (12) in titical units in the conner ower to a lisistance. Figur rise are the communication of the communi	Open color. CC mogramming I monitor selectrical electrical le signals. tage = 0.8 us Maxim V/2~30V pedance) = dentical ur. Refer to incited in Data or ogramming lesistance and Output finication p	lector. Ou de: On. C' control by ignal. Ope signal or of Maximum BY, Minimum, Minimu	put On: O / mode: O / mode: O / electrical n collector lry contact voltage 2 m high le elay betwee tact. ter/Slave i manual. to synchro Programm -1000mΩ te. Prograf front pane	n. Output (ff. Maximusignal or Remote: 0 . 0~0.6V . Remote: 5V, Maximusel input veen 2 pulse mode. Referring via the . Programming rarel.	um Voltage dry contact on Local: 0 or short, 2 0 ~ 0.6V contact of the short of the	e: 30V, Maximust. Remote Dff. Maximust. Remote Dff. Maximust. Remote or short. Locurrent 1002.5V, Maximust. Maximust	eximum Sir: 0~0.6V com Voltage open. Use ocal: 2~30 oma (Shur imum high ts or the fr nication p 9V/mS or A	ak Current: or short. L :: 30V, Max r selectabl OV or oper ited by 27' l level inpu ore power ont panel. orts or the A/mS.	10mA. 10mA. 10cal: 2~3 1cmum Sink 1e logic. 1. 1. 1v zener) 1t = 5V po	BOV or ope Courrent: 1 ositive edg	n. OmA. e trigge
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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 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms Programming and Readback (USB, LAN, RS23 1. Vout programming accuracy (*16) 2. lout programming resolution 4. lout programming resolution 4. lout programming resolution 4. lout programming resolution	put)	Power su CV/CC M Enable/D Analogue Enable/D Two oper Maximun tw=10us By electr 4~5V=I Possible. Power su Limits the Emulates Programm Programm Profiles o 0.05% of 0.002% of 0.2% of 0.2% of	ipply outpfonitor. Opinisable and programmisable PS isable PS in drain profile in the profile isable PS isable PS in drain profile isable PS isable PS in drain profile isable PS isable PS in the profile isable isable outpfonitor is obtained in the profile isable outpfonitor is obtained outpfonitor isable outpfonitor	ut monitor pen collect alogue pro- ning contro- output by output by output by orammab il input vol- n. Tr, Tf= 1 ge: 0~0.6 000hm im elve (12) ic titical units n be conne- ower to a posistance. F put rise ar he commu 00 steps ca 20) Interfa- put voltage out current utput voltag utput curret tput voltag	Open color. CC mogramming I monitor selectrical electrical le signals. tage = 0.8 us Maxim v/2~30V pedance) = dentical ur. Refer to i ected in Da programming dentication pan be store aces) = +0.2% of gent electrical elec	lector. Ou de: On. C' control by ignal. Ope signal or o Maximum BV,Minimu um, Min d or dry con = Fail hits in Mas nstruction aisy chain range: 1 ~ and 11 slew ra orts or the d in 4 me	put On: 0 / mode: 0 / mode: 0 / mode: 0 / electrical n collector lry contact ry contact voltage 2 m high le elay between tact. ter/Slave in manual. consynchm 1000mΩ te. Program front panis mory cells	n. Output (ff. Maximusignal or Remote: 0. 0~0.6V Remote: 5V, Maximusel input ven 2 pulse mode. Reference 2 pulse reference 3 pulse mode. Reference 4 pulse note: 6. Programme 5 pulse Activatio	um Voltage dry contact on. Local: 0 or short, 2 0 ~ 0.6V of num sink coltage = 2 es 1ms.	e: 30V, Maximust. Remote Off. Maximust. Remote Off. Maximust. Remote or short. Locurrent 1002.5V, Maximust. Maximust. Remote off. Cation por ne commu 1~999.98	eximum Sir: 0~0.6V com Voltage open. Use ocal: 2~30 oma (Shur imum high ts or the fr nication p 9V/mS or A	ak Current: or short. L :: 30V, Max r selectabl OV or oper ited by 27' l level inpu ore power ont panel. orts or the A/mS.	tomA. total: 2~3 timum Sink le logic. total: 2 a since si	BOV or ope Courrent: 1 ositive edg	n. OmA. e trigge

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

Protective Functions	V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1. Foldback protection						hanges mode cle in autosta								on.	
2. Over-voltage protection (OVP)		Output sh	ut-down.	Reset by A	AC input re	cycle in auto	start mode,	by OUTPU	T 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 out	tput voltag	е										
5. Output under voltage limit (UVL)		Prevents	from adju	sting Vout	below limi	t. Does not a	pply in ana	logue progr	amming. Pr	eset by front	t panel or c	ommunicati	on port.		
6. Over temperature protection		Shuts dov	wn the out	tput. Auto	recovery by	autostart m	ode.								
7. Output under voltage limit (UVL)		Prevents	adjustmer	nt of Vout I	pelow limit										
8. Output under voltage protection (UVP)						. P.S output tode, by Pow					by commu	nication.			
Front Panel															
1. Control functions		Vout/lout, OVP/UVL, Protection Commun Output Of Commun Analogue	Power Lir /UVP man n Function ication Fu N/OFF. Fro ication Fu Control F	nctions - S ont Panel I nctions - S unctions -	I adjust JVL,UVP, F Selection o ock. Selection o Selection	oldback, OC f LAN,IEEE,R f Baud Rate, Voltage/resis of Voltage/C	S-232,RS- Address, IF stive progra	485,USB or and comm mming, 5V	nunication la /10V, 5K/10	nguage.					
2. Display		Vout: 4 di	igits, accu	ıracy: 0.05	% of rated	output voltaç	ge +/-1 co	unt.							
3. Front Panel Buttons Indications			•	-		OMMUNICA			ONFIGURATI	ON, SYSTEN	И, SEQUEN	ICER.			
4. Front Panel Display Indications						ternal Voltag /IEEE comm					afetstart, Fo	ldback V/I,			
Environmental Conditions															
Operating temperature		0~50°C,	100% loa	ad.											
Storage temperature		-30~85°	°C												
3. Operating humidity	%	20~90%	RH (no c	ondensatio	on).										
4. Storage humidity	%	10~95%	RH (no c	ondensatio	on).										
5. Altitude (*17)		Operating	: 10000ft	(3000m),	output curre	ent derating 2	2%/100m o	r Ta derating	1°C/100m	above 2000r	m. Non ope	rating: 4000	Oft (12000	m).	
Mechanical															
1. Cooling		Forced ai	r cooling	by internal	fans. Air fl	ow direction	: from Fron	t panel to p	ower supply	rear					
2. Weight	kg	2.7kW/3.	4kW: Less	s than 6.25	kg 5kW:	Less than 7.	5kg								
3. Dimensions (WxHxD)	mm					sbars and bu ousbars and b			o Outline dra	awing).					
4. Vibration		MIL-8100	G, method	514.6, Pr	ocedure I,	test conditio	n Annex C	- 2.1.3.1							
5. Shock		Less than	20G, half	f sine, 11n	nS. Unit is	unpacked.									
Safety/EMC															
Applicable standards: Safety		UL61010	-1, CSA2	2.2 No.610	010-1, IEC	61010-1, EN	61010-1								
1.1 Interface classification						4, J5, J6, J7, ense) are haz							Non Hazar	dous.	
1.2 Withstand voltage		60V≤Vou Output & Output & 100V < Vo Output &	t≤100V N J8 (sense J8 (sense out≤600V J8 (sense	Models: Inp e) - J1, J2, e) - Ground Models: I e) - J1, J2,	out — Outpu , J3, J4, J5 d: 1500Vdc nput — Out _l , J3, J4, J5	(sense), J1, t & J8 (sens , J6, J7 & J9 ; 1min, Input put & J8 (ser , J6, J7 & J9 ; 1min, Input	e), J1, J2, v (commun - Ground: nse), J1, J2 (commun	J3, J4, J5, c ication option 2835Vdc 1r 2, J3, J4, J5 ication option	16, J7 & J9 (ons): 850Vd min. , J6, J7 and ons): 1275V	(communica c 1min. J9 (commu	ition option	s): 4242Vdd	: 1min,	ound: 2835Vc	dc 1min.
1.3 Insulation resistance		100Mohn	n at 25°C,	, 70%RH.	Output to G	round 500Vo	ic								
2. Conducted emission		IEC/EN61	204-3 Inc	dustrial en	vironment,	Annex H tabl	e H.1 , FC	C Part 15-A	, VCCI-A .						
3. Radiated emission		IEC/EN61	204-3 Inc	dustrial en	vironment,	Annex H tabl	e H.3 and	H4, FCC Pa	art 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	10-1000			40-250			80-130	_	150-68	_	_		500-20	_
1. Rated output voltage(*1)	V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
2. Rated output current (*2)	A	1000(*3)		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 mo	dels: 342-	~460Vac,	47~63Hz 47~63Hz 47~63Hz	(Covers 3	80/400/4	15Vac)	i0/480Vac	:)				
2. Maximum Input current at 100% load		3-Phase,	200V mo	dels: 35A	@ 200Va	3-Phase	e, 400V m	odels: 18.	4A @ 380	Vac 3-P	hase, 480	V models:	18.4A @	380Vac	
3. Power Factor (Typ)				ac, rated o											
4. Efficiency (Typ) (*5) (*22)	%	89(*21)		91	91	91	91	91	91	91	91	92	92	91	92
5. Inrush current (*6)	А	Less than	100A												
6. AC line phase imbalance	%	< 5%													
Constant Voltage Mode	V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1. Max. Line regulation (*7)				out voltage											
2. Max. Load regulation (*8)				out voltage	1	75	75	00	00	100	000	000	400	450	400
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 E0DDM/01	10	12	12	12	12	15	15	20	45	60	80	80	100
5. Temperature coefficient	PPM/°C			•		Howing 30		•	Constant	line lead	0 tomp				
6. Temperature stability						ollowing 3					α temp.				
7. Warm-up drift 8. Remote sense compensation/wire (*10)	V	2	2	5	5	+2mV ov	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
9. Op-prog. Response time (11) 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			1		ր 9.5% of i								4000	3000
12. Start up delay	Sec		t-point: 1										dels above	100V.	
Constant Current Mode	V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
Max. Line regulation (*7)		_		out current		100	-	100	1.00	1.00	1200		100	1000	
2. Max. Load regulation (*13)				out current											
3. Ripple r.m.s. @ 10% rated voltage (*14)	mA	1500	1200	600	300	200	150	100	70	45	45	15	15	12	10
4. Ripple r.m.s. @ 100% rated voltage (TA25°C) (*14)		1200	700	300	150	100	75	50	35	23	23	7.5	7.5	8	6
5. Temperature coefficient	PPM/°C	10V~100)V: 100PP	M/°C, 150	V~600V:	70PPM/°	C from rate	ed output	current, fol	lowing 30	minutes	warm-up.			
6. Temperature stability		0.01% of	rated lout	over 8hrs	. interval fo	ollowing 30) minutes	warm-up.	Constant I	line, load	& tempera	ture.			
7. Warm-up drift		10V~100	V: Less th	nan +/-0.2	25%, 150V	~600V: Le	ess than +	/-0.15% c	f rated out	put curren	t over 30 r	ninutes fol	lowing pov	ver on.	
Analogue Programming and Monitoring (Iso	lated fro	m the Out	put)												
Vout voltage programming		0~100%	, 0~5V o	r 0~10V,	user selec	table. Acc	uracy and	linearity:	+/-0.15%	of rated V	out.				
2. lout voltage programming (*15)		0~100%	, 0∼5V o	r 0∼10V,	user selec	table. Acc	uracy and	linearity:	+/-0.4% 0	of rated lou	ut.				
3. Vout resistor programming		0~100%	, 0~5/10	Kohm full	scale, use	r selectabl	e. Accura	cy and line	arity: +/-	0.5% of ra	ated Vout.				
4. lout resistor programming (*15)						r selectabl			arity: +/-	0.5% of ra	ated lout.				
5. Output voltage monitor						ıracy: +/-									
6. Output current monitor (*15)		0~5V or	0~10V, ι	user select	table. Accı	ıracy: +/-	0.5% of ra	ted lout.							
Signals and Controls (Isolated from the Out															
1. Power supply OK #1 signal					•							,	m Sink Cu	rrent: 10m	ıA.
2. CV/CC signal						de: On. CV								01/	
3. LOCAL/REMOTE Analogue control									•				.ocal: 2~3		
4. LOCAL/REMOTE Analogue signal		-		-									dmum Sink	Current: 1	UMA.
5. ENABLE/DISABLE signal						signal or d	•				•				
6. INTERLOCK (ILC) control						signal or d									
7. Programmed signals					-	Maximum V Minimu								oitive ad-	o tricos
8. TRIGGER IN / TRIGGER OUT signals						3V,Minimu um, Min de				i.ov, iviaxi	mun nigh	ievei inpi	ut = 5V po	isitive eag	e myger
9. DAISY IN/SO control signal						or dry cont		on a puist	11110.						
10. DAISY OUT/PS OK #2 signal)0ohm im											
Functions and Features			, (50												
Parallel operation		Possible.	Up to fou	r (4) ident	ical GSP II	nits. For m	nore powe	r please co	onsult with	Factory.					
Series operation		Consult w	•				. ,,	,							
Daisy chain					cted in Da	isy chain t	o synchro	nize their t	urn-on and	d turn-off.					
						ed value. P						ont panel.			
		Limits the	output pi	uwei io a i	nogrammi										
4. Constant power control						range: 1~	1000 m Ω .	Programr	ning via th	e commu	nication p	orts or the	front pane	l.	
Constant power control Output resistance control		Emulates Programn	series res	sistance. R put rise an	esistance d Output fa	range: 1~ all slew rat orts or the	e. Progran	nming ran	-				front pane	l.	
Constant power control Output resistance control Slew rate control		Emulates Programn Programn	series res nable Out ning via th	sistance. R put rise an ne commu	esistance d Output fa nication po	all slew rat orts or the	e. Progran front pane	nming ran I.	ge: 0.0001	l∼999.99	V/mS or A	V/mS.	front pane		anel.
4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms		Emulates Programn Programn Profiles o	series res nable Out ning via th f up to 10	sistance. R put rise an ne commu 10 steps ca	esistance d Output fa nication po in be store	all slew rat orts or the	e. Progran front pane	nming ran I.	ge: 0.0001	l∼999.99	V/mS or A	V/mS.			anel.
4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms Programming and Readback (USB, LAN, RS23)		Emulates Programn Programn Profiles o ptional IEE	series res nable Out ning via th f up to 10 E(*19)(*	sistance. R put rise an ne commu 10 steps ca	esistance d Output fa nication po in be store aces)	all slew rat orts or the	e. Progran front pane	nming ran I.	ge: 0.0001	l∼999.99	V/mS or A	V/mS.			anel.
4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms Programming and Readback (USB, LAN, RS23 1. Vout programming accuracy (*16)	 32/485, 0	Emulates Programn Programn Profiles o ptional IEE	series res nable Outp ning via th f up to 10 EE(*19)(* rated outp	sistance. R put rise an ne commu 10 steps ca 20) Interf put voltage	esistance d Output fa nication po in be store aces)	all slew rat orts or the	e. Progran front pane	nming ran I.	ge: 0.0001	l∼999.99	V/mS or A	V/mS.			anel.
4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms Programming and Readback (USB, LAN, RS23 1. Vout programming accuracy (*16) 2. lout programming accuracy (*15)	 32/485, 0	Programm Programm Profiles o ptional IEE 0.05% of 0.3% of ra	series res nable Out ning via th f up to 10 E(*19)(* rated outpu	sistance. R put rise an ne commu 10 steps ca 20) Interf put voltage	esistance d Output fa nication po in be store aces)	all slew rat orts or the	e. Progran front pane	nming ran I.	ge: 0.0001	l∼999.99	V/mS or A	V/mS.			anel.
4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms Programming and Readback (USB, LAN, RS23 1. Vout programming accuracy (*16) 2. lout programming accuracy (*15) 3. Vout programming resolution	 32/485, 0	Programm Programm Profiles o ptional IEE 0.05% of 0.3% of ra 0.002% o	series res nable Outpining via the f up to 10 EE(*19)(* rated output f rated output f rated output	sistance. R put rise an ne commu 0 steps ca 20) Interf out voltage ut current	esistance d Output fa nication point be store aces)	all slew rat orts or the	e. Progran front pane	nming ran I.	ge: 0.0001	l∼999.99	V/mS or A	V/mS.			anel.
4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms Programming and Readback (USB, LAN, RS23 1. Vout programming accuracy (*16) 2. lout programming accuracy (*15) 3. Vout programming resolution 4. lout programming resolution	 32/485, 0	Programn Programn Profiles o ptional IEE 0.05% of 0.3% of ra 0.002% o	series respended in the series respendent respende	sistance. R put rise an ne commu 0 steps ca 20) Interf out voltage ut current tput voltage	esistance d Output fanication pour n be store aces) e	all slew rat orts or the	e. Progran front pane	nming ran I.	ge: 0.0001	l∼999.99	V/mS or A	V/mS.			anel.
4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms Programming and Readback (USB, LAN, RS23 1. Vout programming accuracy (*16) 2. lout programming accuracy (*15) 3. Vout programming resolution 4. lout programming resolution 5. Vout readback accuracy 6. lout readback accuracy (*15)	 32/485, 0 	Programn Programn Profiles o ptional IEE 0.05% of 0.3% of ra 0.002% o	series res nable Out, ning via th f up to 10 EE(*19)(* rated outpu f rated ou f rated outpu f rated outpu	sistance. R put rise an ne commu 10 steps ca 120) Interf put voltage ut current tput voltag tput curre tput voltag tput curre	esistance d Output fanication pour n be store aces) e	all slew rat orts or the d in 4 mer	e. Progran front pane nory cells.	nming ran I.	ge: 0.0001	l∼999.99	V/mS or A	V/mS.			
4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms Programming and Readback (USB, LAN, RS23 1. Vout programming accuracy (*16) 2. lout programming accuracy (*15) 3. Vout programming resolution 4. lout programming resolution 5. Vout readback accuracy	 32/485, 0	Emulates Programm Programm Profiles o ptional IEE 0.05% of 0.3% of ra 0.002% o 0.002% o	series res mable Out ning via th f up to 10 EE(*19)(* rated out f rated out f rated out rated out ated out ated out purated out	sistance. R put rise an ne commu 10 steps ca 120) Interf put voltage ut current tput voltag tput curre tput voltag tput curre	esistance d Output for nication point be store aces)	all slew rat orts or the d in 4 mer	e. Progran front pane nory cells.	nming ran I.	ge: 0.0001	~999.99	OV/mS or A	V/mS.	orts or by t		

Specifications GENESYS+™ GSP (15kW)

Output Rating 1. Rated output voltage(*1)	V	10-1500	20	30	40	50-300	60	80-195 80	100-150	150-102 150	200-75 200	300	400-39	500-30 500	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,	400V mod	dels: 170~ dels: 342~ dels: 342~	-460Vac,	47~63Hz	(Covers 3	80/400/4	(5Vac)	0/480Vac))				
2. Maximum Input current at 100% load		3-Phase,	200V mod	dels: 52.5A	@ 200V	ac 3-Pha	se, 400V i	models: 2	7.6A @ 38	30Vac 3-	Phase, 48	0V models	s: 27.6A @	@ 380Vac	
3. Power Factor (Typ)		0.94 @ 2	.00/380Va	ic, rated ou	utput powe	r.									
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									-				
6. AC line phase imbalance	%	< 5%	100/1												
Constant Voltage Mode	V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
	_				40	50	00	00	100	100	200	300	400	300	000
1. Max. Line regulation (*7)		0.01% of			. 5 . 1/										
2. Max. Load regulation (*8)				ut voltage		75	75	00	00	100	000	000	100	450	400
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	oltage, fol	lowing 30	minutes v	varm-up.							
6. Temperature stability		0.01% of	rated Vout	t over 8hrs	interval fo	llowing 30) minutes	warm-up.	Constant I	ine, load 8	& temp.				
7. Warm-up drift		Less than	0.05% of	rated outp	ut voltage	+2mV ove	er 30 minu	ites follow	ing power	on.					
8. Remote sense compensation/wire (*10)	V	2	2	5	5	5	5	5	5	5	5	5	5	5	5
9. Up-prog. Response time (*11)	mS	30	30	30	30	50	50	50	50	50	50	50	100	100	100
10. Down-prog.response time: 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			age to reco										7000	3000
тт. папысні гезропье шпе	1110			age to rect 0~100%, l										100V	
12. Start up delay	Sec	Less than	•	.0070, 1	_00ai 00il0	2000 111	mo, n		-p .o unu	v.uuiiiy		_, .5: 11100	2.5.0 00000		
Constant Current Mode	V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
	_	_				อบ	00	00	100	100	200	300	400	300	000
1. Max. Line regulation (*7)		0.05% of													
2. Max. Load regulation (*13)				ut current.											1
3. Ripple r.m.s. @ 10% rated voltage (*14)	mA	2000	1200	600	300	250	180	100	70	45	45	15	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	V: 100PP	M/°C, 150	V~600V:	70PPM/°(C from rate	ed output o	current, fol	lowing 30	minutes w	varm-up.			
6. Temperature stability		0.01% of	rated lout	over 8hrs.	interval fo	llowing 30) minutes	warm-up.	Constant I	ine, load &	& temperat	ture.			
7. Warm-up drift		10V~100	V: Less th	an +/-0.2	5%, 150V	~600V: Le	ess than +	/-0.15% o	f rated out	out current	over 30 m	ninutes foll	lowing pow	er on.	
Analogue Programming and Monitoring (Iso	lated fro			,	,			,					. 31.		
Vout voltage programming				r 0~10V, ι	iser selec	able Acci	iracy and	linearity: -	⊥ /₌N 15%	of rated V	nut				
2. lout voltage programming (*15)				r 0~10V, t											
3. Vout resistor programming				Kohm full s											
4. lout resistor programming (*15)				Kohm full s					arity: +/-	0.5% of ra	ted lout.				
5. Output voltage monitor (*23)				iser selecta											
6. Output current monitor (*15) (*23)		0~5V or	J~10V, u	iser selecta	able. Accu	racy: +/-	0.5% of ra	ted lout.							
Signals and Controls (Isolated from the Outp	put)														
1. Power supply OK #1 signal		Power sup	ply outpu	it monitor.	Open coll	ector. Out	out On: On	. Output 0	ff: Off. Ma	ximum Vo	Itage: 30V	, Maximur	n Sink Cur	rent· 10m	A.
		CV/CC Mr	onitor On							001/ 14	. 0.			TOTAL TOTAL	
2. CV/CC signal				en collecto	or. CC mod	de: On. CV	mode: Of	f. Maximu	m Voltage:	: 3UV. IVIAX	amum Sin	k Current:		TOTAL TOTAL	
				en collecta Ioaue proa									10mA.		1.
3. LOCAL/REMOTE Analogue control		Enable/Di	sable anal	logue prog	ramming	control by	electrical	signal or o	dry contact	. Remote:	0~0.6V c	or short. Lo	10mA. ocal: 2~3	OV or oper	
LOCAL/REMOTE Analogue control LOCAL/REMOTE Analogue signal		Enable/Dis Analogue	sable anal programm	logue prog ing control	ramming monitor si	control by gnal. Open	electrical collector.	signal or o Remote: 0	dry contact n. Local: 0	. Remote: ff. Maximu	0∼0.6V o m Voltage:	or short. Lo 30V, Max	10mA. ocal: 2~3 imum Sink	OV or oper	
LOCAL/REMOTE Analogue control LOCAL/REMOTE Analogue signal ENABLE/DISABLE signal		Enable/Dis Analogue Enable/Dis	sable anal programm sable PS o	logue prog ing control output by e	ramming monitor si electrical s	control by gnal. Open ignal or di	electrical collector. ry contact.	signal or o Remote: 0 0~0.6V	dry contact n. Local: 0 or short, 2	:. Remote: ff. Maximu ~30V or o	0~0.6V o m Voltage: open. User	or short. Lo 30V, Max selectable	10mA. ocal: 2~3 imum Sink e logic.	OV or oper	
3. LOCAL/REMOTE Analogue control 4. LOCAL/REMOTE Analogue signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control		Enable/Dis Analogue Enable/Dis Enable/Dis	sable anal programm sable PS o sable PS o	logue prog ing control output by e output by e	ramming monitor si electrical s electrical s	control by gnal. Open ignal or di ignal or di	electrical collector. ry contact. ry contact.	signal or o Remote: 0 0~0.6V o Remote: 0	dry contact n. Local: 0 or short, 2 0~0.6V or	. Remote: ff. Maximu ~30V or c short. Lo	0~0.6V c m Voltage: open. User cal: 2~30	or short. Lo 30V, Max selectabl V or open	10mA. ocal: 2~3 imum Sink e logic.	OV or oper	
LOCAL/REMOTE Analogue control LOCAL/REMOTE Analogue signal ENABLE/DISABLE signal INTERLOCK (ILC) control Programmed signals		Enable/Dis Analogue p Enable/Dis Enable/Dis Two open	sable anal programmi sable PS o sable PS o drain prog	logue prog ing control output by e output by e grammable	ramming monitor si electrical s electrical s e signals.	control by gnal. Open ignal or di ignal or di Maximum	electrical collector. ry contact. ry contact. voltage 25	signal or o Remote: 0 0~0.6V o Remote: 0 5V, Maxim	dry contact n. Local: 0 or short, 2 0~0.6V or um sink cu	Remote: ff. Maximu ~30V or constructions r short. Locurrent 100	0~0.6V om Voltage: open. User cal: 2~30 mA (Shunt	or short. Lo 30V, Maxi selectable V or open ted by 27\	10mA. ocal: 2~3/ imum Sink e logic / zener)	0V or oper Current: 10	OmA.
LOCAL/REMOTE Analogue control LOCAL/REMOTE Analogue signal ENABLE/DISABLE signal INTERLOCK (ILC) control Programmed signals		Enable/Dis Analogue p Enable/Dis Enable/Dis Two open Maximum	sable anal programm sable PS of sable PS of drain program low level	logue prog ing control output by e output by e grammable input volta	monitor si electrical selectrical selectri	control by gnal. Open ignal or di ignal or di Maximum V,Minimul	electrical collector. ry contact. ry contact. voltage 25 m high lev	Remote: 0 0~0.6V Remote: 0 Remote: 0 5V, Maximulation of the context of the c	dry contact n. Local: 0 or short, 2 $0\sim0.6V$ or um sink cu oltage = 2	Remote: ff. Maximu ~30V or constructions r short. Locurrent 100	0~0.6V om Voltage: open. User cal: 2~30 mA (Shunt	or short. Lo 30V, Maxi selectable V or open ted by 27\	10mA. ocal: 2~3/ imum Sink e logic / zener)	0V or oper Current: 10	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/Dis Analogue p Enable/Dis Enable/Dis Two open Maximum tw=10us	sable anal programmi sable PS o sable PS o drain prog low level minimum	logue prog ing control output by e output by e grammable input volta i. Tr,Tf=1u	monitor si monitor si electrical s electrical s e signals. age = 0.8 us Maximu	control by gnal. Open ignal or di ignal or di Maximum V,Minimui m, Min de	electrical collector. ry contact. ry contact. voltage 25 m high lev elay betwe	Remote: 0 0~0.6V Remote: 0 Remote: 0 5V, Maximulation of the context of the c	dry contact n. Local: 0 or short, 2 $0\sim0.6V$ or um sink cu oltage = 2	Remote: ff. Maximu ~30V or constructions r short. Locurrent 100	0~0.6V om Voltage: open. User cal: 2~30 mA (Shunt	or short. Lo 30V, Maxi selectable V or open ted by 27\	10mA. ocal: 2~3/ imum Sink e logic / zener)	0V or oper Current: 10	OmA.
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		Enable/Dis Analogue p Enable/Dis Enable/Dis Two open Maximum tw=10us By electric	sable anal programmi sable PS of sable PS of drain programinimum cal Voltago	logue prog ing control output by e output by e grammable input volta i. Tr,Tf=1u e: 0~0.6V	monitor si electrical selectrical selectri	control by gnal. Open ignal or di ignal or di Maximum V,Minimu m, Min de or dry cont	electrical collector. ry contact. ry contact. voltage 25 m high lev elay betwe	Remote: 0 0~0.6V Remote: 0 Remote: 0 5V, Maximulation of the context of the c	dry contact n. Local: 0 or short, 2 $0\sim0.6V$ or um sink cu oltage = 2	Remote: ff. Maximu ~30V or constructions r short. Locurrent 100	0~0.6V om Voltage: open. User cal: 2~30 mA (Shunt	or short. Lo 30V, Maxi selectable V or open ted by 27\	10mA. ocal: 2~3/ imum Sink e logic / zener)	0V or oper Current: 10	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/Dis Analogue p Enable/Dis Enable/Dis Two open Maximum tw=10us By electric	sable anal programmi sable PS of sable PS of drain programinimum cal Voltago	logue prog ing control output by e output by e grammable input volta i. Tr,Tf=1u	monitor si electrical selectrical selectri	control by gnal. Open ignal or di ignal or di Maximum V,Minimu m, Min de or dry cont	electrical collector. ry contact. ry contact. voltage 25 m high lev elay betwe	Remote: 0 0~0.6V Remote: 0 Remote: 0 5V, Maximulation of the context of the c	dry contact n. Local: 0 or short, 2 $0\sim0.6V$ or um sink cu oltage = 2	Remote: ff. Maximu ~30V or constructions r short. Locurrent 100	0~0.6V om Voltage: open. User cal: 2~30 mA (Shunt	or short. Lo 30V, Maxi selectable V or open ted by 27\	10mA. ocal: 2~3/ imum Sink e logic / zener)	0V or oper Current: 10	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		Enable/Dis Analogue p Enable/Dis Enable/Dis Two open Maximum tw=10us By electric	sable anal programmi sable PS of sable PS of drain programinimum cal Voltago	logue prog ing control output by e output by e grammable input volta i. Tr,Tf=1u e: 0~0.6V	monitor si electrical selectrical selectri	control by gnal. Open ignal or di ignal or di Maximum V,Minimu m, Min de or dry cont	electrical collector. ry contact. ry contact. voltage 25 m high lev elay betwe	Remote: 0 0~0.6V Remote: 0 Remote: 0 5V, Maximulation of the context of the c	dry contact n. Local: 0 or short, 2 $0\sim0.6V$ or um sink cu oltage = 2	Remote: ff. Maximu ~30V or constructions r short. Locurrent 100	0~0.6V om Voltage: open. User cal: 2~30 mA (Shunt	or short. Lo 30V, Maxi selectable V or open ted by 27\	10mA. ocal: 2~3/ imum Sink e logic / zener)	0V or oper Current: 10	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/Dis Analogue Enable/Dis Enable/Dis Two open Maximum tw=10us By electric 4~5V=0	sable anal programm sable PS of sable PS of drain programmer low level minimum cal Voltage DK, OV (50	logue prog ing control output by e output by e grammable input volta i. Tr,Tf=1u e: 0~0.6V	ramming monitor si electrical se electrical se electrical se electrical se signals. Augre = 0.8 Maximu = 0.8	control by gnal. Open ignal or di ignal or di Maximum V,Minimui m, Min de or dry cont Fail	electrical collector. ry contact. ry contact. voltage 25 m high lev elay betwe act.	signal or c Remote: 0 0~0.6V (Remote: 0 5V, Maxim el input vo en 2 pulse	dry contact n. Local: 0 or short, 2 0~0.6V or uum sink cu oltage = 2 is 1ms.	. Remote: ff. Maximu ~30V or c short. Lo urrent 100 .5V, Maxin	0~0.6V om Voltage: open. User cal: 2~30 mA (Shunt	or short. Lo 30V, Maxi selectable V or open ted by 27\	10mA. ocal: 2~3/ imum Sink e logic / zener)	0V or oper Current: 10	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 electric 4~5V=0	sable anal programmi sable PS o sable PS o drain prog low level minimum cal Voltago DK, OV (50	logue prog ing control output by e output by e grammable input volta i. $Tr, Tf = 1t$ e: $0 \sim 0.6V$ 00hm imp r (4) identif	ramming monitor si electrical se electrical se signals. age = 0.8 us Maximu //2~30V dedance) =	control by gnal. Open ignal or di ignal or di Maximum V,Minimui m, Min de or dry cont Fail	electrical collector. ry contact. ry contact. voltage 25 m high lev elay betwe act.	signal or c Remote: 0 0~0.6V (Remote: 0 5V, Maxim el input vo en 2 pulse	dry contact n. Local: 0 or short, 2 0~0.6V or uum sink cu oltage = 2 is 1ms.	. Remote: ff. Maximu ~30V or c short. Lo urrent 100 .5V, Maxin	0~0.6V om Voltage: open. User cal: 2~30 mA (Shunt	or short. Lo 30V, Maxi selectable V or open ted by 27\	10mA. ocal: 2~3/ imum Sink e logic / zener)	0V or oper Current: 10	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 electric 4~5V=0 Possible. Consult w	sable anal programmi sable PS o sable PS o drain programmi low level minimum cal Voltago OK, OV (50 Up to four ith Factory	logue prog ing control putput by e putput by e grammable input volta i. $Tr, Tf = 1t$ $e: 0 \sim 0.6V$ 0.00 imput 0.00 i	ramming monitor signature in m	control by gnal. Open ignal or di ignal or di Maximum V,Minimui m, Min de or dry cont Fail	electrical collector. ry contact. ry contact. voltage 25 m high levelay betwee act.	signal or c Remote: 0 0~0.6V c Remote: (5V, Maxim rel input vo en 2 pulse	try contact n. Local: 0 or short, 2 0~0.6V or um sink cu oltage = 2 ss 1ms.	. Remote: ff. Maximu ~30V or c r short. Lourrent 100 .5V, Maximum	0~0.6V om Voltage: open. User cal: 2~30 mA (Shunt	or short. Lo 30V, Maxi selectable V or open ted by 27\	10mA. ocal: 2~3/ imum Sink e logic / zener)	0V or oper Current: 10	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 electric 4~5V=0 Possible. Consult w Power sup	sable anal programm sable PS of sable PS of drain programment I ow level minimum cal Voltago DK, OV (50 Up to four rith Factory oplies can	logue prog ing control putput by e poutput by e grammable input volta i. Tr,Tf=1u e: 0~0.6V, i00hm imp r (4) identify y	ramming imposition monitor si electrical si	control by gnal. Open ignal or di ignal or di Maximum V, Minimum m, Min de or dry cont Fail	electrical collector. ry contact. ry contact. voltage 25 m high level act.	signal or of Remote: 0 0~0.6V of Remote: 0 5V, Maxim el input voen 2 pulse	try contact n. Local: 0 or short, 2 0~0.6V or um sink co oltage = 2 is 1ms.	Remote: ff. Maximu ~30V or construction for short. Local for short. Local for short. Local for short. Local for short. for shor	0~0.6V c m Voltage: open. User cal: 2~30 mA (Shuni mum high	or short. Lu 30V, Max selectabl V or open ted by 27V level inpu	10mA. ocal: 2~3/ imum Sink e logic / zener)	0V or oper Current: 10	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											ode or from C PUT button,				on.	
2. Over-voltage protection	n (OVP)		Output sh	ut-down. F	Reset by A	C input rec	ycle in autos	start mode,	by OUTPUT	button, by	rear panel or	r by commi	unication.			
3. Over-voltage programn	ning 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 programmir	ng accuracy		+/-1% 0	f rated outp	ut voltage	9			,	,		,				,
5. Output under voltage li	mit (UVL)		Prevents	from adjus	ting Vout	below limit	. Does not a	pply in anal	ogue progra	amming. Pr	eset by front	panel or co	ommunicatio	on port.		
6. Over temperature prote	ection		Shuts dov	vn the out	ut. Auto r	ecovery by	autostart mo	ode.								
7. Output under voltage li						elow limit.										
8. Output under voltage p	. ,			•			P.S output t	urns Off du	rina under v	oltage cond	dition.					
(UVP)											ear panel or	by commu	nication.			
Front Panel																
1. Control functions			Vout/lout, OVP/UVL, Protection Commun Output Of Commun Analogue	ication Fun N/OFF. Fro ication Fun Control Fu	it manual ial adjust s - OVP, U ctions - S nt Panel L ctions - S inctions -	adjust IVL,UVP, For selection of ock. Selection of Selection \(\)	Baud Rate,	S-232,RS-4 Address, IP stive program	and comm mming, 5V/	unication la /10V, 5K/10	ommunicatio nguage. K programm					
2. Display							output voltag tput current									
3. Front Panel Buttons Inc	dications		OUTPUT	ON, ALARN	I, PREVIE	W, FINE, C	OMMUNICA	TION, PROT	ECTION,CC	NFIGURATI	ON, SYSTEN	1, SEQUEN	CER.			
4. Front Panel Display Ind	dications						ernal Voltag IEEE commu				Autostart, Sa	fetstart, Fo	ldback V/I,			
Environmental Conditio	ns															
1. Operating temperature			0~50°C,	100% load	d.											
2. Storage temperature			-30~85°	С												
3. Operating humidity		%	20~90%	RH (no co	ndensatio	n).										
4. Storage humidity		%	10~95%	RH (no co	ndensatio	n).										
5. Altitude (*17)			Operating	: 10000ft (3000m), d	output curre	nt derating 2	%/100m or	Ta derating	1°C/100m	above 2000r	n. Non ope	rating: 40000	Oft (12000r	m).	
Mechanical																
1. Cooling			Forced ai	r cooling b	y internal	fans. Air flo	ow direction:	from Front	panel to po	ower supply	rear					
2. Weight	GSP 10kW GSP 15kW	kg	Less than Less than													
3. Dimensions (WxHxD)	GSP 10kW GSP 15kW	mm	W: 423, H W: 423, H	1: 88, D: 6 1: 132.5, D	40 (Includ : 441.5 (\	ling busbar: Vithout bus	bars and bu	rs cover, an sbars cover),	, ,	Outline dra	•,				
4. Vibration			-				est condition			, ,		0,				
5. Shock						S. Unit is u										
Safety/EMC							•									
Applicable standards:	Safety		UL61010	-1. CSA22	.2 No.610	10-1. IEC6	1010-1, EN	61010-1								
1.1 Interface classification	,		Vout≤50\	/ Models: (Output, J1	, J2, J3, J4	, J5, J6, J7,	J8 (sense)			options) are & J9 (comm			Non Hazaro	dous	
1.2 Withstand voltage			Vout≤50\ 60V≤Vou Output & Output & 100V <v &="" &<="" output="" td=""><td>/ Models: I t≤100V Models J8 (sense) J8 (sense) J8 (sense) J8 (sense)</td><td>nput – Ou odels: Inpo - J1, J2, - Ground Models: Ir - J1, J2, - Ground</td><td>tput & J8 (ut — Output J3, J4, J5, : 1500Vdc nput — Outp J3, J4, J5, : 2500Vdc</td><td>sense), J1, & & J8 (sense J6, J7 & J9 1min, Input ut & J8 (ser J6, J7 & J9 1min, Input</td><td>J2, J3, J4, v e), J1, J2, J (communional) - Ground: 2 (se), J1, J2, (communional) - Ground: 2</td><td>J5, J6, J7 & 3, J4, J5, J cation optio 2835Vdc 1n , J3, J4, J5, cation optio 2835Vdc 1n</td><td>3 J9 (comm 6, J7 & J9 (ns): 850Vd nin. , J6, J7 and ns): 1275V</td><td>unication op (communica c 1min.</td><td>tions): 424 tion option</td><td>2Vdc 1min, s): 4242Vdc</td><td>Input - Gro 1min,</td><td>ound: 2835Vc</td><td>dc 1min.</td></v>	/ Models: I t≤100V Models J8 (sense) J8 (sense) J8 (sense) J8 (sense)	nput – Ou odels: Inpo - J1, J2, - Ground Models: Ir - J1, J2, - Ground	tput & J8 (ut — Output J3, J4, J5, : 1500Vdc nput — Outp J3, J4, J5, : 2500Vdc	sense), J1, & & J8 (sense J6, J7 & J9 1min, Input ut & J8 (ser J6, J7 & J9 1min, Input	J2, J3, J4, v e), J1, J2, J (communional) - Ground: 2 (se), J1, J2, (communional) - Ground: 2	J5, J6, J7 & 3, J4, J5, J cation optio 2835Vdc 1n , J3, J4, J5, cation optio 2835Vdc 1n	3 J9 (comm 6, J7 & J9 (ns): 850Vd nin. , J6, J7 and ns): 1275V	unication op (communica c 1min.	tions): 424 tion option	2Vdc 1min, s): 4242Vdc	Input - Gro 1min,	ound: 2835Vc	dc 1min.
1.3 Insulation resistance							RH. Output									
2. Conducted emission							Annex H tabl									
3. Radiated emission							Annex H tabl	e H.3 and I	H4, FCC Pa	rt 15-A, VC	CI-A					
4. EMC compliance	EMC(*18)		IEC/EN61	204-3 Ind	ustrial env	ironment										

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.

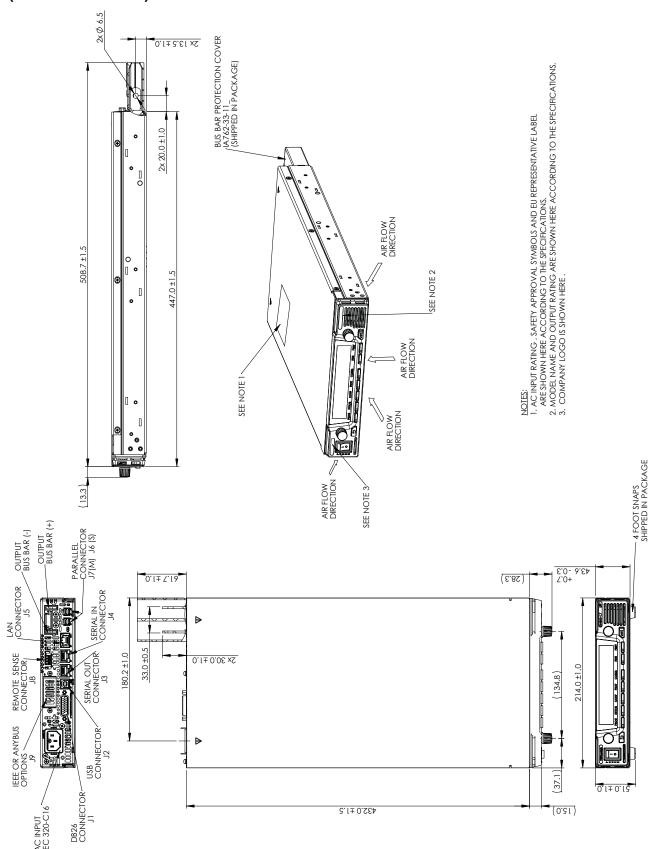
- Not including terminal initial control, loss that of the control of the cont
- *9: For 10V~150V models: Measured with JEITA RC-9131C (1:1) probe
- For 200—600V models: Measured with 100:1 probe.
 *10: The maximum voltage on the power supply terminals must not exceed the rated voltage. *11: From 10% 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

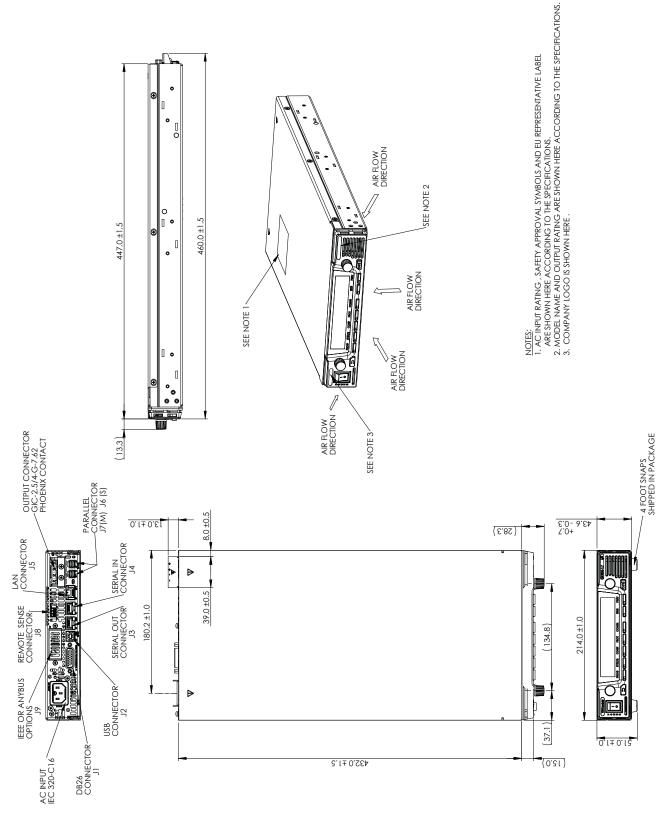
Outline Drawing GENESYS+™ GH (1kW)

(Models 10V-100V)



Outline Drawing GENESYS+™ GH (1kW)

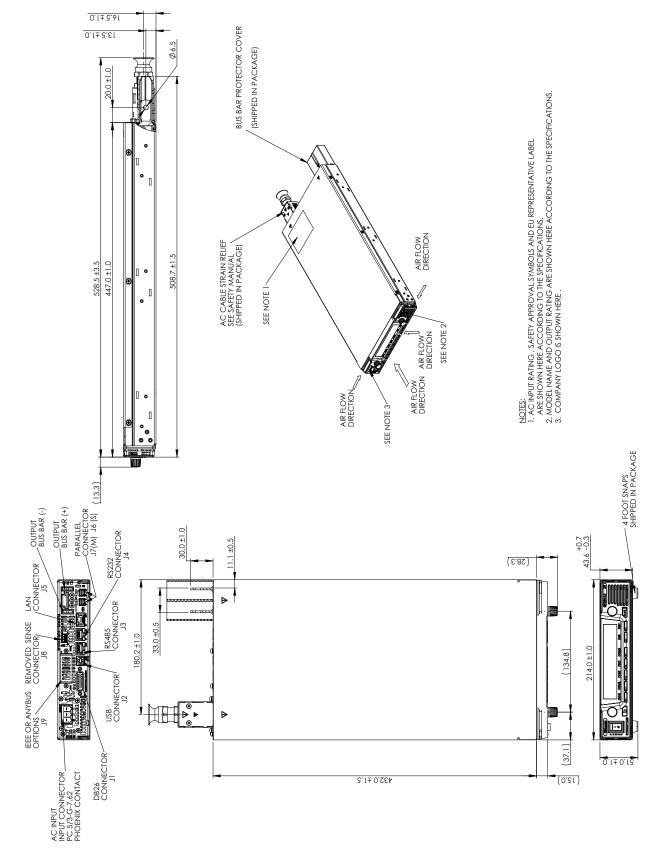
(Models 150V-600V)



33

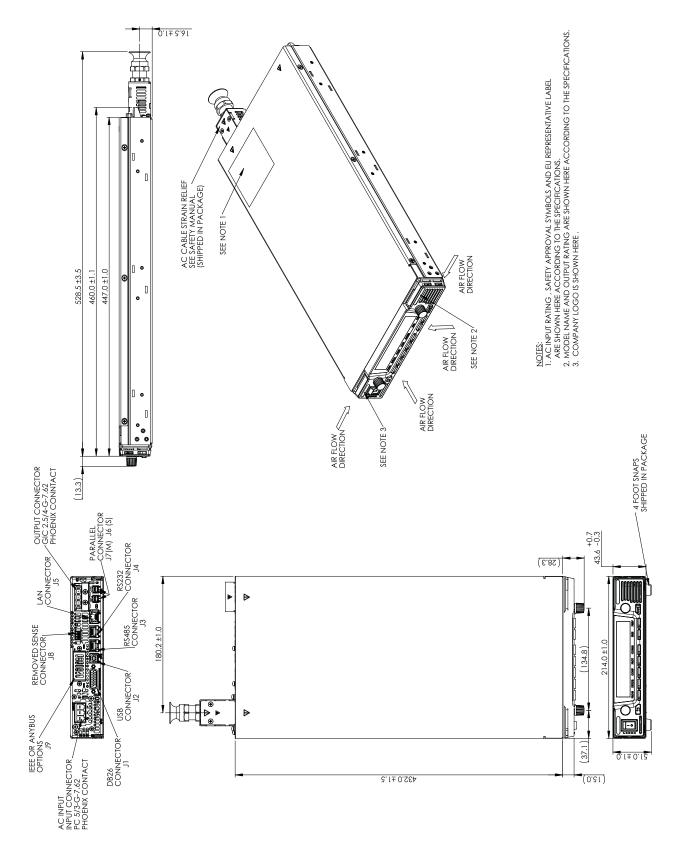
Outline Drawing GENESYS+™ GH (1.5kW)

(Models 10V-100V)



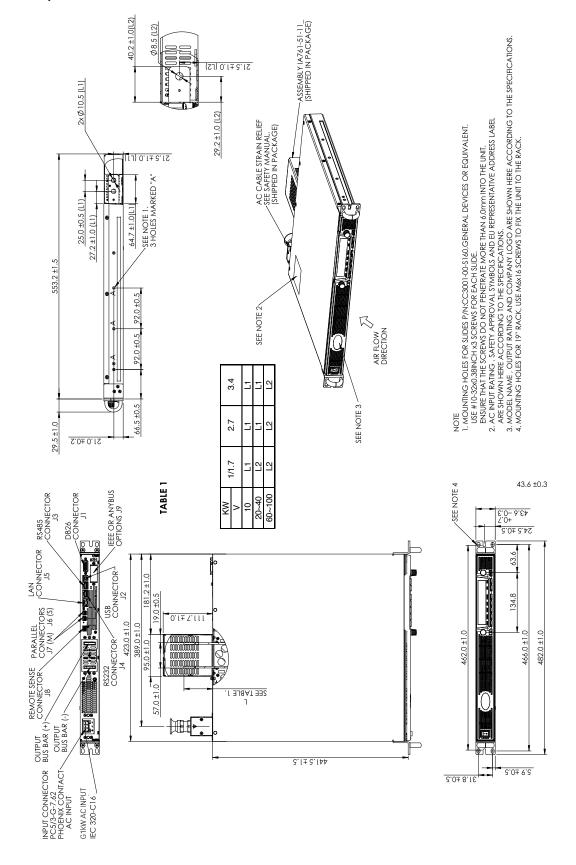
Outline Drawing GENESYS+™ GH (1.5kW)

(Models 150V-600V)



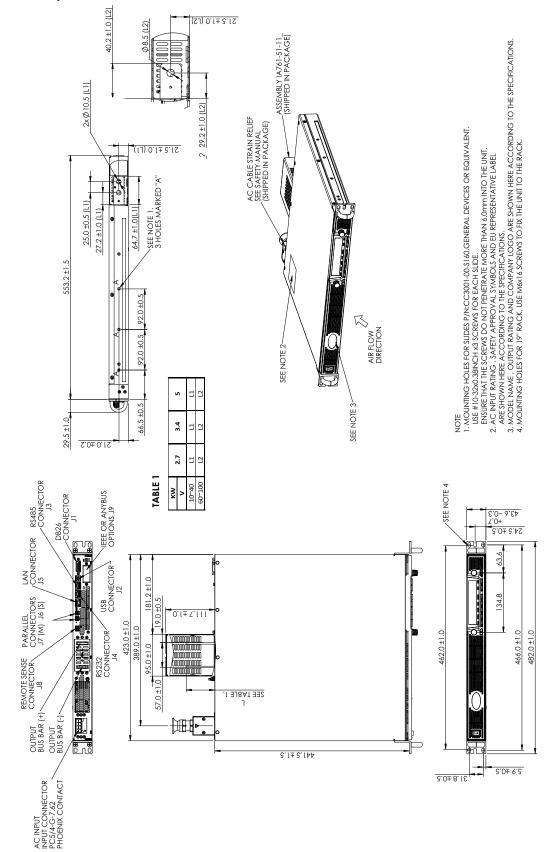
Outline Drawing GENESYS+™ G (1/1.7/2.7/3.4kW)

(1-Phase)

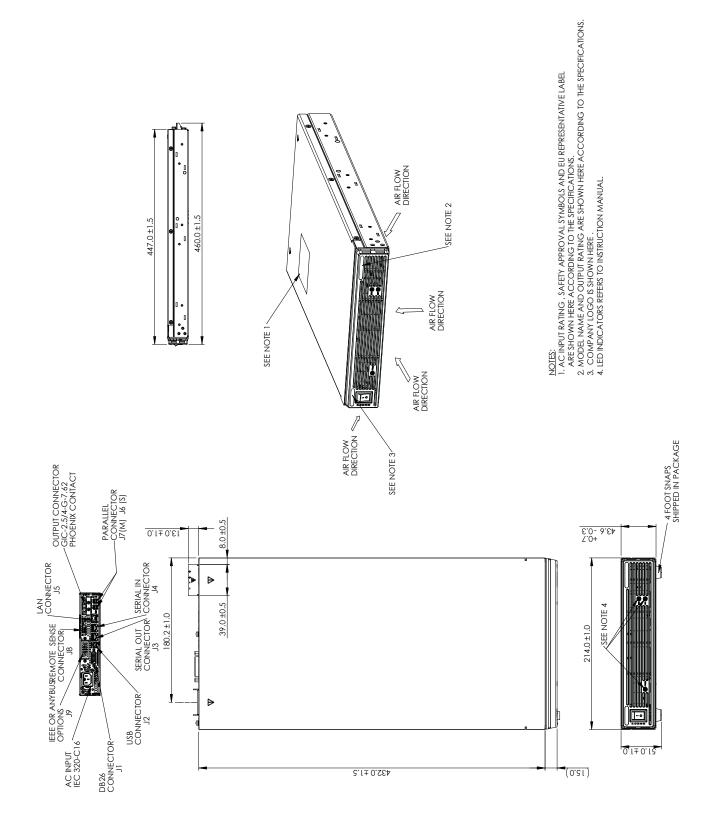


Outline Drawing GENESYS+™ G (2.7/3.4/5kW)

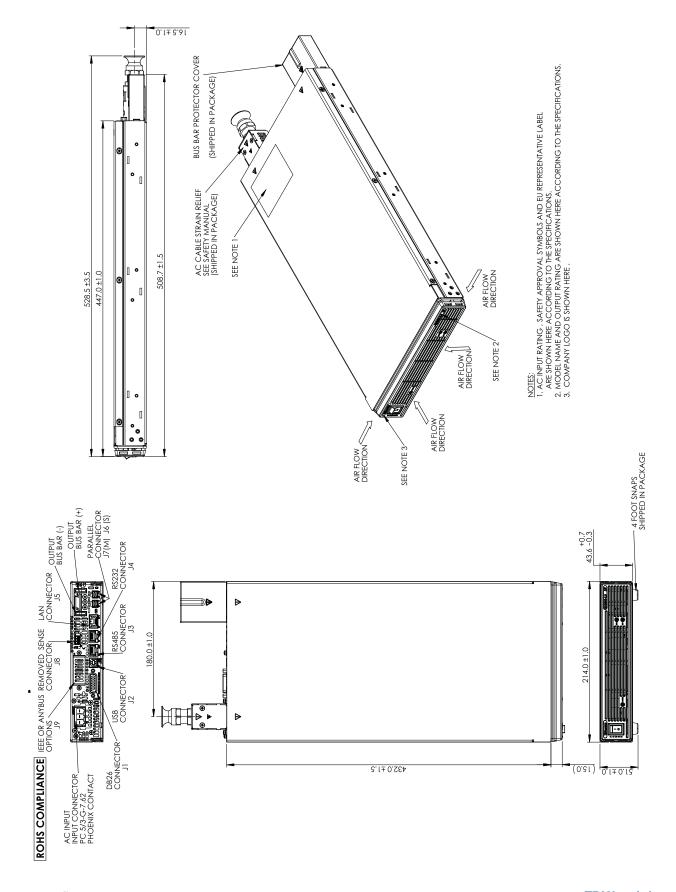




Outline Drawing GENESYS+™ GHB (1kW)

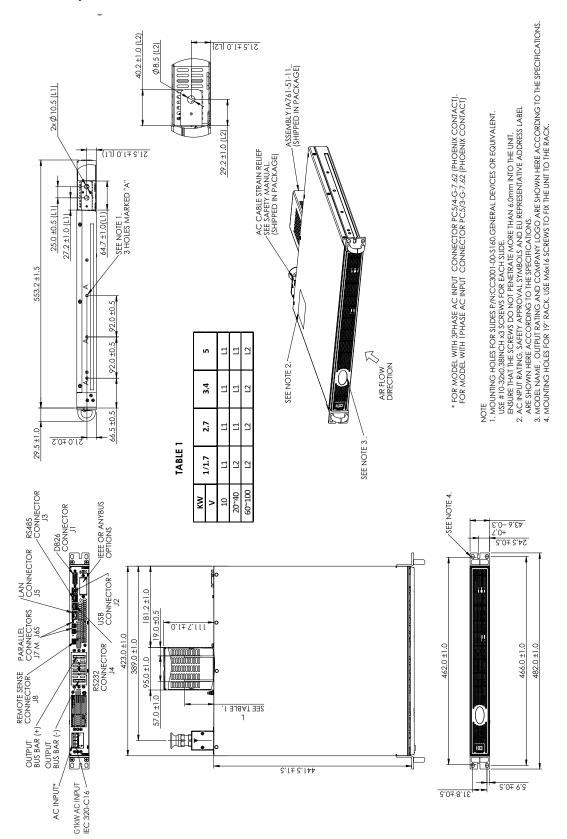


Outline Drawing GENESYS+™ GHB (1.5kW)

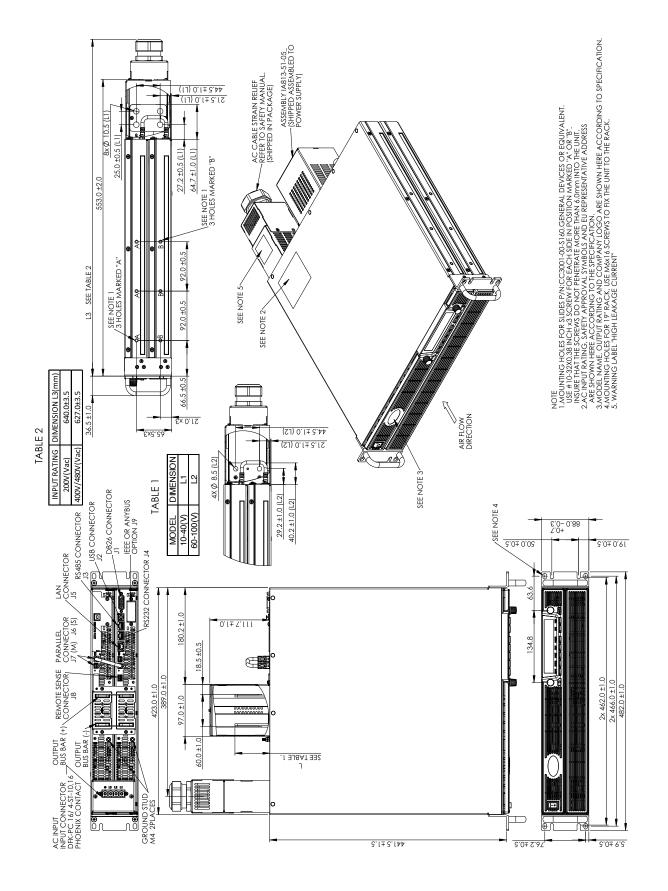


Outline Drawing GENESYS+™ GB (1/1.7/2.7/3.4/5kW)

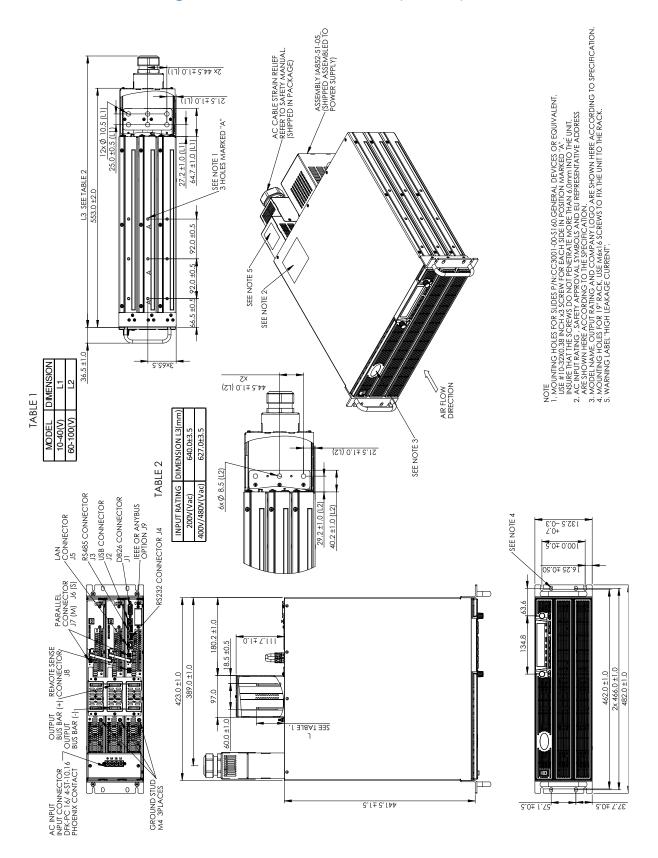
(ATE Version)



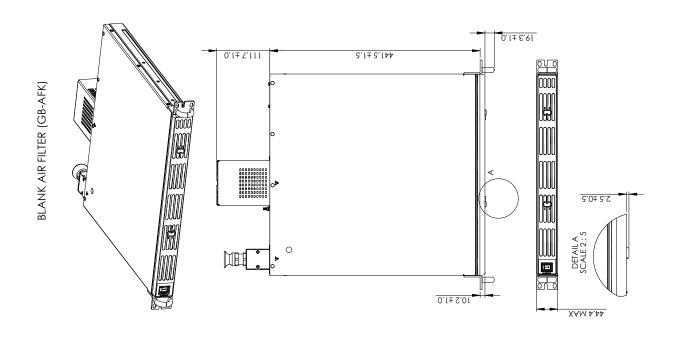
Outline Drawing GENESYS+™ GSP (10kW)

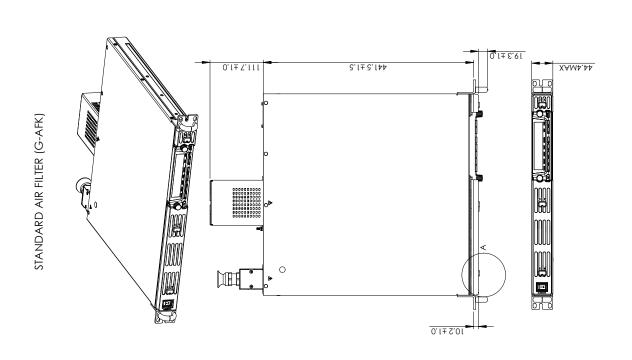


Outline Drawing GENESYS+™ GSP (15kW)



Outline Drawing GENESYS+™ Air Filter Kit







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



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