

Mess- und Prüftechnik, Die Experten,

GENESYS[™] GH1kW/1.5kW Series Programmable DC Power Supplies Half-Rack 1kW/1.5kW in 1U Height

! Advanced Features Built-In !

Arbitrary Waveform Generator with Auto-Trigger Capability

 Programmable Slew Rate Control (Vout/lout)

 Constant Power Limit Operation • Internal Resistance Programming

 Built-In Remote Isolated Analog Interface
 Built-In LAN (LXI 1.5), USB, and RS-232/RS-485 Interfaces
 Optional EtherCAT, Modbus-TCP, IEEE (488.2) Interfaces
 Blank Front Panel Option Available



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

Features include:

- Leading DC Programmable power density (1.5kW in 1U height) in 19" Half-Rack-mount
- Light-weight <3.5 kg
- Wide Range of popular worldwide AC inputs: GH1kW/1.5kW: 1ø (85~265VAC)
- Active PFC (0.99 typical)
- Output Voltage up to 600V, Current up to 150A
- Built-in LAN (LXI 1.5), USB, RS-232/RS-485 Interface
- Multi-Drop capability (RS-485)
- Multi-functional front panel display
- Last-Setting Memory
- Auto-Start / Safe-Start: user selectable
- High Resolution 16 bit ADCs & DACs
- Arbitrary Waveform Generator with Auto-Trigger Capability
- · Store up to 100 steps into four internal memory cells
- High-speed Programming
- Constant Voltage/Constant Current operation modes
- Constant Power (CP) Limit
- Slew-Rate Control (V/I)
- Internal Resistance Programming Simulation
- Local / Remote Sensing software controlled
- Built-In Remote Isolated Analog Program/Monitor and Control Interface
- Protection functions (OVP, UVP, UVL, FOLD (CV/CC), OCL, OTP, AC FAIL)
- Fan speed profile controlled by ambient temperature and load
- Certified LabWindows™/CVI, LabVIEW™, and IVI Drivers
- Optional EtherCAT, Modbus-TCP, IEEE (488.2) Interfaces
- 19" Rack Mount capability for ATE and OEM application
- Scalable Power Systems
- Parallel Systems with Auto-Configure
- Worldwide Safety Agency approvals
- CE Mark for Low Voltage, EMC and RoHS3 Directives
- Five year warranty

Applications

GENESYS[™] power supplies have been designed to meet the demands of a wide variety of applications.

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

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

Higher power systems can be configured with up to four 1.5kW units. Each unit is 1U with zero space between them (zero stack).

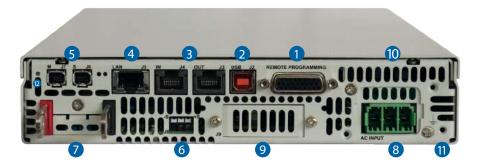
OEM Designers have a wide variety of Inputs and Outputs from which to select depending on application and location.

GH1kW/1.5kW Front Panel Description



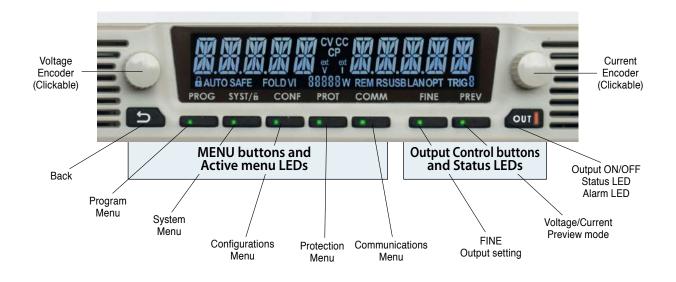
- 1. Input Power ON/OFF Switch
- 2. Air Intake allows zero stacking for maximum system flexibility and power density.
- 3. Reliable Detent Encoders for settings and Menu navigation.
- 4. High Contrast/Brightness display with wide viewing angle, 16 segment LCD
- 5. Function/Status LEDs: Active modes and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

GH1kW/1.5kW Rear Panel Description

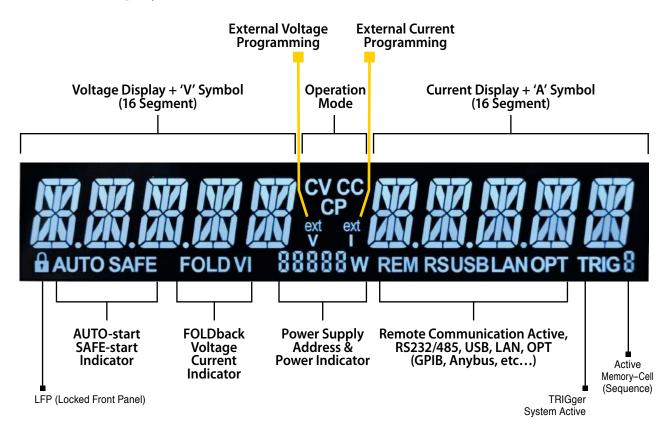


- 1. Isolated Analog Programming, Monitoring and other control connector (DB26 Female)
- 2. USB Interface connector (Type B).
- 3. RS-232/RS-485 IN/OUT Remote Digital Interface (RJ-45 type) for Multi-Drop connection
- 4. LAN (LXI 1.5) Interface connector (RJ-45 type with LAN status indicators).
- 5. Auto paralleling Bus connectors (mini I/O type) for connecting Master unit-to-Slave and Slave unit-to-Slave unit.
- 6. Remote/Local Output Voltage Sense Connections (spring cage).
- 7. Output Connections: Rugged busbars (shown) for models up to and including 100V Output; 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.
- GH1.5kW Input: 85~265VAC, Single Phase, 50/60 Hz.
 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 Display MENU/CONTROL buttons:



Front Panel Display indicators



GENESYS[™] GHB1kW/1.5kW Series Blank Front Panel (ATE version)



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

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

The power supply can be controlled via the rear panel Remote Digital Interface

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

GENESYS[™] 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.

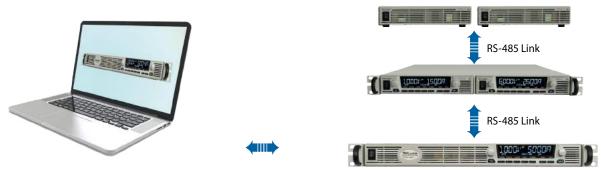
Series operation

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.



LAN, USB, RS-232, RS-485, IEEE, AnyBus

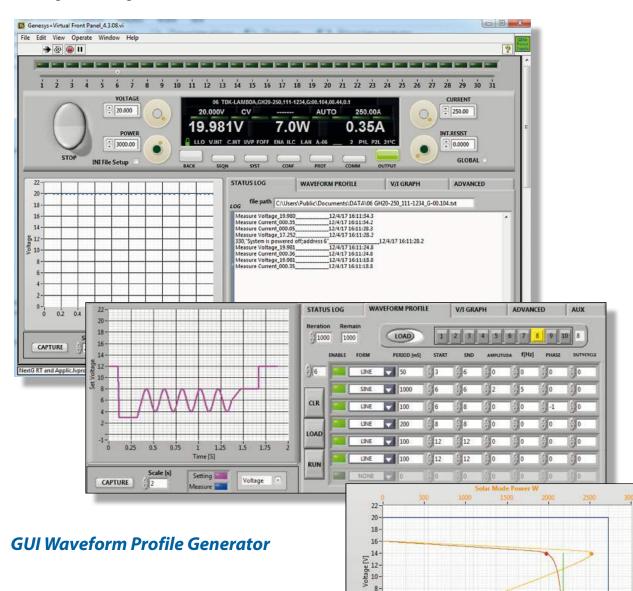
Standard Unit - zero stacked up to 4 units



Graphical User Interface

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

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



6-4-2-R[oHm] 0-

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0.08

25 50

75

100

125 150

Current A

175

225

SOLAR

250

200

6

How to order GH1kW/1.5kW - Power Supply Identification / Accessories

GH	10	- 150 -		-	-
Series Name	Output	Output	Interface Options	AC Cord Options only for 1kW	Accessories Options
Front Panel Type	Voltage	Current		Region: E - Europe	M - Printed *User Manual
Empty: standard	(0~10V)	(0~150A)		U - North America	* User Manual & GUI are available on the website
B: Blank Front Panel				J - Japan	P - Bus Parralleling Cable
AC Inputs (All M	lodels)		▼	C - China	
1Ø, 85 ~ 265Vac				I - Middle East	
Interface Optio	ons (Factory	installed)	P/N		
LAN (LXI 1.5 complia	ant with Multi-Dr	op capability)- built-in	-		
USB 2.0 compliant	with Multi-Drop	capability - built-in	-		
RS-232/RS-485 - b	uilt-in		-		
Isolated Analog Pro (5V/10V Pgm/Mon w			-		
IEEE (488.2 & SCPI co	ompliant with Mu	lti-Drop capability installed)	IEEE		
Modbus-TCP			MDBS		
EtherCAT			ECAT		

Models 1kW

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

Models 1.5kW

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

Accessories

Rack Mounting applications P/N:GH/RM

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 GH1kW/1.5kW

unit or two units side-by-side in a standard 19" rack in 1U(1.75") height, use option kit **P/N:GH/RM**

Single unit installation

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

Dual unit installation

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

Benchtop applications Multi Output P/N:GH/MO

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 **P/N:GH/MO-2U**







GENESYS[™] GH1kW SERIES SPECIFICATIONS

| 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 | | | | | | | | | | | | | | | | | | | | | |
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| 1.Rated output voltage(*1) | V

 | 10 | 20 | 30 | 40 | 60
 | 80 | 100 | 150 | 300 | 600 | | | | | | | | | | | | | | | | | | | | | |
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| 2.Rated output current (*2) | A

 | 100 | 50 | 34 | 25 | 17
 | 12.5 | 10 | 7 | 3.5 | 1.7 | | | | | | | | | | | | | | | | | | | | | |
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| 3.Rated output power | W

 | 1000 | 1000 | 1020 | 1000 | 1020
 | 1000 | 1000 | 1050 | 1050 | 1020 | | | | | | | | | | | | | | | | | | | | | |
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| INPUT CHARACTERISTICS | v

 | 10 | 20 | 30 | 40 | 60
 | 80 | 100 | 150 | 300 | 600 | | | | | | | | | | | | | | | | | | | | | |
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| 1.Input voltage/freq. (*3) |

 | | ntinuous, 47~6 | 3Hz,Single Pha | se | | | | | | | | | | | | | | | | | | | | | | |
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| 2. Maximum Input current at 100% load (100/20 |

 | 12.5/6.5 | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 3.Power Factor (Typ)
4.Efficiency at 100 Vac/200Vac, rated output (*12 | 7) %

 | 0.99 @ 100Vac
86/88 | 0.98 @ 200Va
87/89 | c, rated output
87/89 | power.
87/89 | 87/89
 | 87/89 | 88/90 | 88/90 | 88/90 | 88/90 | | | | | | | | | | | | | | | | | | | | | |
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| 5.Inrush current (*5) | 7) %
A

 | Less than 50A | 0//09 | 0//09 | 0//09 | 0//09
 | 07/09 | 00/90 | 00/90 | 00/90 | 00/90 | | | | | | | | | | | | | | | | | | | | | |
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| CONSTANT VOLTAGE MODE | v

 | 10 | 20 | 30 | 40 | 60
 | 80 | 100 | 150 | 300 | 600 | | | | | | | | | | | | | | | | | | | | | |
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| 1.Max. Line regulation (*6) |

 | | output voltage | | | | | | | | | | | | | | | | | | | | | | | | |
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| 2.Max. Load regulation (*7) |

 | | output voltage | T | r | 1
 | 1 | | | r | | | | | | | | | | | | | | | | | | | | | | |
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| 3.Ripple and noise (p-p, 20MHz) (*8) | mV

 | 50 | 50 | 50 | 60 | 60
 | 75 | 75 | 75 | 200 | 500 | | | | | | | | | | | | | | | | | | | | | |
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| 4.Ripple r.m.s. 5Hz~1MHz (*8) | mV

 | 6 | 6 | 6 | 7 | 7
 | 10 | 20 | 20 | 50 | 100 | | | | | | | | | | | | | | | | | | | | | |
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| 5.Temperature coefficient | PPM/°C

 | | | voltage, followi | | | | | | | | | | | | | | | | | | | | | | | |
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| 6.Temperature stability |

 | | | interval follow | - | | | | | | | | | | | | | | | | | | | | | | |
 | | temp. | | | | | | | |
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| 7. Warm-up drift |

 | Less than 0.01 | % of rated outp | ut voltage+2m | / over 30 minu | es following po
 | ower on. | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 8.Remote sense compensation/wire (*10) | V

 | 2 | 2 | 5 | 5 | 5
 | 5 | 5 | 5 | 5 | 5 | | | | | | | | | | | | | | | | | | | | | |
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| 9.Up-prog. Response time (*11) | mS

 | 35 | 35 | 35 | 35 | 35
 | 35 | 40 | 50 | 100 | 100 | | | | | | | | | | | | | | | | | | | | | |
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| 10.Down-prog.response time: Full load (*12) |) mS

 | 30 | 30 | 60 | 60 | 60
 | 60 | 80 | 120 | 220 | 220 | | | | | | | | | | | | | | | | | | | | | |
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| No load (*12) | mS

 | 500 | 700 | 900 | 1200 | 1500
 | 1700 | 2000 | 2500 | 3300 | 3500 | | | | | | | | | | | | | | | | | | | | | |
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| 11.Transient response time | mS

 | Time for output | ut voltage to re | cover within 0.5 | % of its rated o | utput for a load
 | d change 10~90 | % of rated out | put current. Ou | tput set-point: | 10~100%, | | | | | | | | | | | | | | | | | | | | | |
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 | | | for 10V models | Less than 1m | , tor models up
 | to and includir | ng 100V. 2mS fo | or models abov | /e 100V. | | | | | | | | | | | | | | | | | | | | | | |
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| 12.Start up delay | Sec

 | Less than 6 Sec | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 13.Hold-up time | mS

 | 20ms typical, i | rated output po | ower | | | | | | | | | | | | | | | | | | | | | | | |
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| CONSTANT CURRENT MODE | V

 | 10 | 20 | 30 | 40 | 60
 | 80 | 100 | 150 | 300 | 600 | | | | | | | | | | | | | | | | | | | | | |
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| 1.Max. Line regulation (*6) |

 | 0.01% of rated | output current | | | | | | | | | | | | | | | | | | | | | | | | |
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| 2.Max. Load regulation (*9) |

 | - | output curren | | | | | | | | | | | | | | | | | | | | | | | | |
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| 3.Ripple r.m.s. @ rated voltage. B.W 5Hz~1MHz. | (*13) mA

 | ≤420 | ≤160 | ≤100 | ≤60 | ≤50
 | ≤30 | ≤20 | ≤10 | ≤8 | ≤5 | | | | | | | | | | | | | | | | | | | | | |
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| 5.Temperature coefficient | PPM/°C

 | | | n rated output o | | 5
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| 5.Temperature stability |

 | | 50V~600V 70PPM/°C from rated output current, following 30 minutes warm-up.
.02% of rated lout over 8hrs. interval following 30 minutes warm-up. Constant line, load & temperature. | | | | | | | | | | | | | | | | | | | | | | | | |
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 | - | 0.02% of rated lout over 8nrs. Interval following 30 minutes warm-up. Constant line, load & temperature.
10V~100V model: Less than +/-0.25% of rated output current over 30 minutes following power on. | | | | | | | | | | | | | | | | | | | | | | | | |
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| 7. Warm-up drift |

 | 150V~600V: Less than +/-0.15% of rated output current over 30 minutes following power on. | | | | | | | | | | | | | | | | | | | | | | | | | |
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| ANALOG PROGRAMMING AND MONITORING | ISOLATED FROM

 | THE OUTPUT) | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 1.Vout voltage programming |

 | 0~100%, 0~5V | or 0~10V, user | selectable. Acc | uracy and linea | rity: +/-0.15% o
 | f rated Vout. | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 2.lout voltage programming (*14) |

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| 3.Vout resistor programming |

 | | 0~100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: +/-0.4% of rated lout.
0~100%, 0~5/10Kohm full scale, user selectable. Accuracy and linearity: +/-0.5% of rated Vout. | | | | | | | | | | | | | | | | | | | | | | | | |
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 | 0~100%, 0~5/10Kohm full scale, user selectable. Accuracy and linearity: +/-0.5% of rated lout. | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 4.lout resistor programming (*14) |

 | | 0~5V or 0~10V, user selectable. Accuracy: +/-0.5% of rated Vout. | | | | | | | | | | | | | | | | | | | | | | | | |
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 | 0.5% of rated lo | out. | | | | | | | |
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| 5.Output voltage monitor |

 | 0~5V or 0~10V | /, user selectabl | | 0.5% of rated \ | out.
 | 0.5% of rated lo | out. | | | | | | | | | | | | | | | | | | | | | | | | |
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| 4.lout resistor programming (*14)
5.Output voltage monitor
6.Output current monitor (*14) |

 | 0~5V or 0~10V | /, user selectabl | e. Accuracy: +/- | 0.5% of rated \ | out.
 | 0.5% of rated lo | out. | | | | | | | | | | | | | | | | | | | | | | | | |
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| 5.Output voltage monitor
6.Output current monitor(*14)
SIGNALS AND CONTROLS (ISOLATED FROM TH |

HE OUTPUT)

 | 0~5V or 0~10V
0~5V or 0~10V | /, user selectabl
/, user selectabl | e. Accuracy: +/-
e. Accuracy: +/- | 0.5% of rated \
0.5% of rated | out.
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| 5.Output voltage monitor
6.Output current monitor (*14)
SIGNALS AND CONTROLS (ISOLATED FROM TH
1. Power supply OK #1 signal |

HE OUTPUT)

 | 0~5V or 0~10V
0~5V or 0~10V
Power supply | /, user selectabl
/, user selectabl
output monito | e. Accuracy: +/-
e. Accuracy: +/-
r. Open collecto | 0.5% of rated V
0.5% of rated I
r. Output On: C | out.
out.
In. Output Off:
 | Off. Maximum \ | /oltage: 30V, Mi | | urrent: 10mA. | | | | | | | | | | | | | | | | | | | | | | |
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| 5.Output voltage monitor
6.Output current monitor (*14)
SIGNALS AND CONTROLS (ISOLATED FROM TH
1. Power supply OK #1 signal
2. CV/CC signal | HE OUTPUT)

 | 0~5V or 0~10V
0~5V or 0~10V
Power supply
CV/CC Monito | /, user selectabl
/, user selectabl
output monito
r. Open collecto | e. Accuracy: +/-
le. Accuracy: +/-
r. Open collecto
pr. CC mode: On | 0.5% of rated \
0.5% of rated
r. Output On: C
. CV mode: Off. | out.
out.
on. Output Off:
Maximum Volt
 | Off. Maximum \
age: 30V, Maxin | /oltage: 30V, Ma
num Sink Curre | nt: 10mA. | | | | | | | | | | | | | | | | | | | | | | | |
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| 5.Output voltage monitor
6.Output current monitor (*14)
SIGNALS AND CONTROLS (ISOLATED FROM TH
1. Power supply OK #1 signal
2. CV/CC signal
3. LOCAL/REMOTE Analog control | HE OUTPUT)

 | 0~5V or 0~10V
0~5V or 0~10V
Power supply
CV/CC Monito
Enable/Disabl | /, user selectabl
/, user selectabl
output monito
r. Open collecto
e analog progra | e. Accuracy: +/-
le. Accuracy: +/-
r. Open collecto
or. CC mode: On
amming contro | 0.5% of rated V
0.5% of rated I
r. Output On: C
. CV mode: Off.
I by electrical s | out.
Dut.
In. Output Off:
Maximum Volt
gnal or dry con
 | Off. Maximum \
age: 30V, Maxin
tact. Remote: 0 | ′oltage: 30V, Ma
num Sink Curre
~0.6V or short. | nt: 10mA.
Local: 2~30V o | r open. | | | | | | | | | | | | | | | | | | | | | | |
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| 5.Output voltage monitor
6.Output current monitor (*14)
SIGNALS AND CONTROLS (ISOLATED FROM TH
1. Power supply OK #1 signal
2. CV/CC signal
3. LOCAL/REMOTE Analog control
4. LOCAL/REMOTE Analog signal | IE OUTPUT)

 | 0~5V or 0~10V
0~5V or 0~10V
Power supply
CV/CC Monito
Enable/Disabl
analog progra | /, user selectabl
/, user selectabl
output monito
r. Open collecto
e analog progr
mming control | e. Accuracy: +/-
le. Accuracy: +/-
r. Open collecto
or. CC mode: On
amming contro
monitor signal. | 0.5% of rated V
0.5% of rated I
r. Output On: C
. CV mode: Off.
I by electrical s
Open collector. | out.
out.
In. Output Off:
Maximum Volt
gnal or dry con
Remote: On. Lo
 | Off. Maximum \
age: 30V, Maxin
tact. Remote: 0
:cal: Off. Maximu | ′oltage: 30V, Mi
num Sink Curre
~0.6V or short.
ım Voltage: 30\ | nt: 10mA.
Local: 2~30V o
/, Maximum Sin | | | | | | | | | | | | | | | | | | | | | | | |
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| 5.Output voltage monitor
6.Output current monitor (*14)
SIGNALS AND CONTROLS (ISOLATED FROM TH
1. Power supply OK #1 signal
2. CV/CC signal
3. LOCAL/REMOTE Analog control
4. LOCAL/REMOTE Analog signal
5. ENABLE/DISABLE signal | IE OUTPUT)

 | 0~5V or 0~10V
0~5V or 0~10V
Power supply
CV/CC Monito
Enable/Disabl
analog progra
Enable/Disabl | /, user selectabl
/, user selectabl
output monito
r. Open collecto
e analog progra
mming control
e PS output by | e. Accuracy: +/-
e. Accuracy: +/-
r. Open collecto
or. CC mode: On
amming contro
monitor signal.
electrical signal | 0.5% of rated V
0.5% of rated I
r. Output On: C
. CV mode: Off.
I by electrical s
Open collector.
or dry contact | out.
Dut.
On. Output Off:
Maximum Volt
gnal or dry con
Remote: On. Lo
. 0~0.6V or sho
 | Off. Maximum \
age: 30V, Maxin
tact. Remote: 0
ical: Off. Maximu
rt, 2~30V or ope | ⁷ oltage: 30V, M
num Sink Curre
~0.6V or short.
ım Voltage: 30\
n. User selecta | nt: 10mA.
Local: 2~30V o
/, Maximum Sin
ble logic. | r open. | | | | | | | | | | | | | | | | | | | | | | |
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| 5.Output voltage monitor
6.Output current monitor (*14)
SIGNALS AND CONTROLS (ISOLATED FROM TH
1. Power supply OK #1 signal
2. CV/CC signal
3. LOCAL/REMOTE Analog control
4. LOCAL/REMOTE Analog signal
5. ENABLE/DISABLE signal
6. INTERLOCK (ILC) control | Image: Control of the second

 | 0~5V or 0~10V
0~5V or 0~10V
Power supply
CV/CC Monito
Enable/Disabl
analog progra
Enable/Disabl
Enable/Disabl
 | /, user selectabl
output monito
r. Open collecto
e analog progra
mming control
e PS output by
e PS output by | e. Accuracy: +/-
e. Accuracy: +/-
r. Open collecto
pr. CC mode: On
amming contro
monitor signal.
electrical signa
electrical signa | 0.5% of rated 1
0.5% of rated 1
r. Output On: C
. CV mode: Off.
by electrical s
Open collector.
or dry contact
or dry contact | out.
out.
n. Output Off:
Maximum Volt
gnal or dry con
Remote: On. Lc
.0~0.6V or sho
. Remote: 0~0.6 | Off. Maximum \
age: 30V, Maxin
tact. Remote: 0
cal: Off. Maximu
rt, 2~30V or ope
W or short. Loca
 | foltage: 30V, M.
num Sink Curre
~0.6V or short.
Im Voltage: 30\
n. User selecta
II: 2~30V or ope | nt: 10mA.
Local: 2~30V o
/, Maximum Sin
ble logic.
en. | r open. | ۸. | | | | | | | | | | | | | | | | | | | | | |
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| 5.Output voltage monitor
6.Output current monitor (*14)
SIGNALS AND CONTROLS (ISOLATED FROM TH
1. Power supply OK #1 signal
2. CV/CC signal
3. LOCAL/REMOTE Analog control
4. LOCAL/REMOTE Analog signal
5. ENABLE/DISABLE signal | IE OUTPUT)

 | 0~5V or 0~10V
0~5V or 0~10V
Power supply
CV/CC Monito
Enable/Disabl
analog progra
Enable/Disabl
Two open drai | /, user selectabl
/, user selectabl
output monito
r. Open collecto
e analog progr.
mming control
e PS output by
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e. Accuracy: +/-
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or. CC mode: On
amming contro
monitor signal.
electrical signal
electrical signal
electrical signal | 0.5% of rated \
0.5% of rated \
0.5% of rated I
r. Output On: C
CV mode: Off.
by electrical s
Open collector.
or dry contact
or dry contact
mum voltage 2 | out.
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Maximum Volt
gnal or dry con
Remote: On. Lc
.0~0.6V or sho
.Remote: 0~0.6
5V, Maximum s
 | Off. Maximum \
age: 30V, Maxin
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cal: Off. Maximu
rt, 2~30V or ope
iV or short. Loca
ink current 100 | foltage: 30V, Mi
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∼0.6V or short.
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n. User selecta
II: 2~30V or ope
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Local: 2~30V o
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ble logic.
en.
y 27V zener) | r open.
k Current: 10mA | | | | | | | | | | | | | | | | | | | | | | |
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| 5.Output voltage monitor
6.Output current monitor (*14)
SIGNALS AND CONTROLS (ISOLATED FROM TH
1. Power supply OK #1 signal
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4. LOCAL/REMOTE Analog signal
5. ENABLE/DISABLE signal
6. INTERLOCK (ILC) control
7. Programmed signals | Image: Control of the second

 | 0~5V or 0~10V
0~5V or 0~10V
Power supply
CV/CC Monito
Enable/Disabl
analog progra
Enable/Disabl
Enable/Disabl
Two open drai
Maximum lo
 | 7, user selectabl
7, user selectabl
output monito
r. Open collector
e analog progr.
mming control
e PS output by
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n programmab
w level input v | e. Accuracy: +//
e. Accuracy: +//
r. Open collecto
or. CC mode: On
amming contro
monitor signal.
electrical signal
electrical signal
de signals. Maxi
voltage = 0.8V | 0.5% of rated \
0.5% of rated \
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r. Output On: C
CV mode: Off.
by electrical s
Open collector.
or dry contact
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mum voltage 2
,Minimum hig | out.
out.
Maximum Volt
gnal or dry com
Remote: On. Lc
0~0.6V or sho
Remote: 0~0.0
SV, Maximum s
ph level input | Off. Maximum \
age: 30V, Maxin
tact. Remote: 0
cal: Off. Maximu
rt, 2~30V or ope
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ink current 100
voltage = 2.5\
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hum Sink Curre
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II: 2~30V or ope
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6. Output current monitor (*14)
SIGNALS AND CONTROLS (ISOLATED FROM TH
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4. LOCAL/REMOTE Analog signal
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6. INTERLOCK (ILC) control
7. Programmed signals
8. TRIGGER IN / TRIGGER OUT signals | 4E OUTPUT

 | 0~5V or 0~10V
0~5V or 0~10V
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Enable/Disabl
Two open drai
Maximum lo
trigger: tw=1 | /, user selectabl
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mming control
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e. Accuracy: +/-
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les signals. Maxi
voltage = 0.8V
n. Tr,Tf=1us Ma | 0.5% of rated \
0.5% of rated \
0.5% of rated I
r. Output On: C
CV mode: Off.
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Open collector.
or dry contact
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, Minimum hi
ximum, Min o | out.
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gnal or dry com
Remote: On. Lc
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ph level input
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age: 30V, Maxin
tact. Remote: 0
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rt, 2~30V or ope
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ink current 100
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hum Sink Curre
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| 5.Output voltage monitor
6.Output current monitor (*14)
SIGNALS AND CONTROLS (ISOLATED FROM TH
1. Power supply OK #1 signal
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6. INTERLOCK (ILC) control
7. Programmed signals
8. TRIGGER IN / TRIGGER OUT signals
9. DAISY_IN/SO control signal | Image: Control of the second

 | 0~5V or 0~10V
0~5V or 0~10V
Power supply
CV/CC Monito
Enable/Disabl
Enable/Disabl
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Maximum Io
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output monitor.
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e analog progra-
mming control
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e. Accuracy: +/-
r. Open collecto
or. CC mode: On
amming contro
monitor signal.
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coltage = 0.8V
voltage = 0.8V
voltage = 0.3V | 0.5% of rated \
0.5% of rated \
0.5% of rated I
r. Output On: C
CV mode: Off.
I by electrical s
Open collector.
or dry contact
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ximum, Min o | out.
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gnal or dry com
Remote: On. Lc
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ph level input | Off. Maximum \
age: 30V, Maxin
tact. Remote: 0
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rt, 2~30V or ope
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ink current 100
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hum Sink Curre
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| 5.Output voltage monitor
6.Output current monitor (*14)
SIGNALS AND CONTROLS (ISOLATED FROM TH
1. Power supply OK #1 signal
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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 | 4E OUTPUT

 | 0~5V or 0~10V
0~5V or 0~10V
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CV/CC Monito
Enable/Disabl
Enable/Disabl
Two open drai
Maximum Io
Maximum Io
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/, user selectabl
output monito
r. Open collecto
e analog progra
mming control
e PS output by
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w level input v
Ous minimum | e. Accuracy: +/-
e. Accuracy: +/-
r. Open collecto
or. CC mode: On
amming contro
monitor signal.
electrical signal
electrical signal
electrical signal
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electrical signal
coltage = 0.8V
voltage = 0.8V
voltage = 0.3V | 0.5% of rated \
0.5% of rated \
0.5% of rated I
r. Output On: C
CV mode: Off.
I by electrical s
Open collector.
or dry contact
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mum voltage 2
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ximum, Min o | out.
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gnal or dry com
Remote: On. Lc
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Remote: 0~0.0
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ph level input
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age: 30V, Maxin
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rt, 2~30V or ope
iV or short. Loca
ink current 100
voltage = 2.5\ | /oltage: 30V, Mi
hum Sink Curre
0.6V or short.
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n. User selecta
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ble logic.
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| 5.Output voltage monitor
6.Output current monitor (*14)
SIGNALS AND CONTROLS (ISOLATED FROM TH
1. Power supply OK #1 signal
2. CV/CC signal
3. LOCAL/REMOTE Analog control
4. LOCAL/REMOTE Analog signal
5. ENABLE/DISABLE signal
6. INTERLOCK (ILC) control
7. Programmed signals
8. TRIGGER IN / TRIGGER OUT signals
9. DAISY_IN/SO control signal
10. DAISY_OUT/PS_OK #2 signal
FUNCTIONS AND FEATURES | Image: state

 | 0~5V or 0~10V
0~5V or 0~10V
CV/CC Monito
Enable/Disabl
Enable/Disabl
Two open drai
Maximum Io
rrigger: tw=1
By electrical V
4~5V=OK, 0V f
 | /, user selectabl
/, user selectabl
output monito
r. Open collect
e analog progr-
mming control
e PS output by
e PS output by
in programmab
w level input '
olus minimum
oltage: 0~0.6V/
(500ohm imped | e. Accuracy: +/-
e. Accuracy: +/-
r. Open collecto
or. CC mode: On
amming contro
monitor signal.
electrical signal
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electric | 0.5% of rated V
0.5% of rated I
r. Output On: C
. CV mode: Off
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or dry contact
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mum voltage 2
Minimum hig
ximum, Min c
ntact. | out.
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Maximum Volt
gnal or dry con
Remote: On. Lc
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. Remote: 0~0.6
5V, Maximum s
ph level input
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age: 30V, Maxin
tact. Remote: 0
cal: Off. Maximu
rt, 2-30V or ope
iV or short. Loca
ink current 100
voltage = 2.5\
2 pulses 1ms
 | /oltage: 30V, Mi
hum Sink Curre
0.6V or short.
Im Voltage: 30\
n. User selecta
II: 2~30V or ope
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/, Maximum h | nt: 10mA.
Local: 2~30V o
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ble logic.
en.
y 27V zener) | r open.
k Current: 10mA | | | | | | | | | | | | | | | | | | |
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| 5.Output voltage monitor
6.Output current monitor (*14)
SIGNALS AND CONTROLS (ISOLATED FROM TH
1. Power supply OK #1 signal
2. CV/CC signal
3. LOCAL/REMOTE Analog control
4. LOCAL/REMOTE Analog signal
5. ENABLE/DISABLE signal
6. INTERLOCK (ILC) control
7. Programmed signals
8. TRIGGER IN / TRIGGER OUT signals
9. DAISY_IN/SO control signal
10. DAISY_OUT/PS_OK #2 signal
FUNCTIONS AND FEATURES
1. Parallel operation | 4E OUTPUT <tr tr=""></tr>

 | 0~5V or 0~10V
0~5V or 0~10V
Power supply
CV/CC Monito
Enable/Disabl
Enable/Disabl
Enable/Disabl
Two open drai
Maximum Io
trigger: tw=1
By electrical V
4~5V=OK, 0V to
Possible. Up to | /, user selectabl
/, user selectabl
output monito
r. Open collecto
e analog progr-
mming control
e PS output by
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in programmab
w level input r
Olus minimum
oltage: 0~0.6//
(500ohm impec | e. Accuracy: +/-
e. Accuracy: +/-
r. Open collecto
or. CC mode: On
amming contro
monitor signal.
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electrical signal
elect | 0.5% of rated V
0.5% of rated V
0.5% of rated V
r. Output On: C
CV mode: Off
I by electrical s
Open collector:
or dry contact
or dry contact
mum voltage 2
Minimum hig
ximum, Min c
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Maximum Volt
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Remote: On. Lc
0~0.6V or sho
. Remote: 0~0.6
5V, Maximum s
ph level input
lelay betweer | Off. Maximum \
age: 30V, Maxin
tact. Remote: 0
cal: Off. Maximu
rt, 2-30V or ope
iV or short. Loca
ink current 100
voltage = 2.5\
2 pulses 1ms
 | /oltage: 30V, Mi
hum Sink Curre
0.6V or short.
Im Voltage: 30\
n. User selecta
II: 2~30V or ope
mA (Shunted b
/, Maximum h | nt: 10mA.
Local: 2~30V o
/, Maximum Sin
ble logic.
en.
y 27V zener) | r open.
k Current: 10mA | | | | | | | | | | | | | | | | | | | | | | |
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| 5.Output voltage monitor
5.Output current monitor (*14)
5.Output current monitor (*14)
5.Output current monitor (*14)
5.IORALS AND CONTROLS (ISOLATED FROM TH
1. Power supply OK #1 signal
2. CV/CC signal
3. LOCAL/REMOTE Analog control
4. LOCAL/REMOTE Analog signal
5. ENABLE/DISABLE signal
5. 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
EUNCTIONS AND FEATURES
1. Parallel operation
2. Series operation | Image: state

 | 0~5V or 0~10V
0~5V or 0~10V
CV/CC Monito
Enable/Disabl
Enable/Disabl
Enable/Disabl
Enable/Disabl
Baylectrical V
4~5V=OK, 0V 1
Possible. Up to
Possible. Two
 | /, user selectabl
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output monito
r. Open collecto
e analog progr
mming control
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lOus minimum
oltage: 0~0.6V/
(500ohm impec | e. Accuracy: +/-
e. Accuracy: +/-
r. Open collecto
or. CC mode: On
amming contro
monitor signal.
electrical signal
electrical signal
electrical signal
electrical signal.
Maxi
voltage = 0.8W
h. Tr,Tf=1us Ma
2-30V or dry cc
2-30V or dry cc
1ance)=Fail
ts in Master/Sla
Refer to instruc | 0.5% of rated V
0.5% of rated V
0.5% of rated I
r. Output On: C
CV mode: Off.
I by electrical s
Open collector;
or dry contact
mum voltage 2
Minimum hig
ximum, Min c
intact. | tout.
but.
Maximum Volt
gnal or dry con
Remote: On. Lc
0~0.6V or sho

Remote: 0~0.0
SV, Maximum s
th level input
lelay between
to instruction | Off. Maximum \
age: 30V, Maxin
tact. Remote: 0
cal: Off. Maximu
t; 2~30V or ope
V or short. Locci
ink current 100
voltage = 2.55
i 2 pulses 1ms
manual.
 | foltage: 30V, Mi
num Sink Curre
~0.6V or short.
im Voltage: 30V
im Voltage: 30V
n. User selecta
d: 2~30V or op
mA (Shunted b
/, Maximum h | nt: 10mA.
Local: 2~30V o
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ble logic.
en.
y 27V zener) | r open.
k Current: 10mA | | | | | | | | | | | | | | | | | | | | | | |
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| 5. Output voltage monitor
5. Output current monitor (*14)
5. SIGNALS AND CONTROLS (ISOLATED FROM TH
1. Power supply OK #1 signal
2. CV/CC signal
3. LOCAL/REMOTE Analog signal
4. LOCAL/REMOTE Analog signal
5. ENABLE/DISABLE signal
5. INTRELOCK (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 | 4E OUTPUT <tr tr=""></tr>

 | 0~5V or 0~10V
0~5V or 0~10V
CV/CC Monito
Enable/Disabl
Enable/Disabl
Enable/Disabl
Enable/Disabl
Two open drai
Maximum lot
trigger: tw=1
By electrical V
4~5V=OK, 0V 1
Possible. Up to
Possible. Two i
Power supplie | /, user selectabl
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output monito
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5. Output current monitor (*14)
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2. CV/CC signal
3. LOCAL/REMOTE Analog control
4. LOCAL/REMOTE Analog signal
5. ENABLE/DISABLE signal
5. ENABLE/DISABLE signal
5. INTRELOCK (ILC) control
7. Programmed signals
9. DAISY_IN/SO control signal
10. DAISY_OUT/PS_OK #2 signal
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2. Series operation
3. Daisy chain
4. Constant power control | 4E OUTPUT <tr tr=""> <td>0~5V or 0~10V
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. INTERLOCK (ILC) control
. Programmed signals
. TRIGGER IN / TRIGGER OUT signals
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UNCTIONS AND FEATURES
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4. LOCAL/REMOTE Analog signal
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5. 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
7. Parallel operation
2. Series operation
3. Daisy chain
4. Constant power control
5. Slew rate control
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7. Arbitrary waveforms
7. RCGRAMMING AND READBACK (USB, LAN</td><td>Image: second second</td><td>0~5V or 0~10V
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1. Power supply OK #1 signal
2. CV/CC signal
3. LOCAL/REMOTE Analog control
4. LOCAL/REMOTE Analog signal
5. ENABLE/DISABLE signal
5. INTERLOCK (ILC) control
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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
5. Output resistance control
5. Slew rate control
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7. Arbitrary waveforms
PROGRAMMING AND READBACK (USB, LAN SE32)
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tr, 2~30V or oper-tr, 2~30 | foltage: 30V, Mi
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0~5V or 0~10V
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5.Output current monitor (*14)
5.Output current monitor (*14)
5.Output current monitor (*14)
5.IOCAL/REMOTE Analog control
4. LOCAL/REMOTE Analog signal
5. LOCAL/REMOTE Analog signal
5. 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
7. Parallel operation
2. Series operation
3. Daisy chain
4. Constant power control
5. Slew rate control
5. Slew rate control
7. Arbitrary waveforms
7. RCGRAMMING AND READBACK (USB, LAN | Image: second | 0~5V or 0~10V
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Enable/Disabl
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Enable/Disabl
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tact. Remote: 0
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0~5V or 0~10V
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e. Accuracy: +/-
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m ports or by t | r open.
k Current: 10mA
it = 5V positive | e edge | 5. Output voltage monitor
5. Output current monitor (*14)
5. SIGNALS AND CONTROLS (ISOLATED FROM TH
1. Power supply OK #1 signal
2. CV/CC signal
3. LOCAL/REMOTE Analog control
4. LOCAL/REMOTE Analog signal
5. ENABLE/DISABLE signal
5. 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
5. Output resistance control
5. Slew rate control
5. Nate control
7. Arbitrary waveforms
PROGRAMMING AND READBACK (USB, LAN SE32)
4 (1) Interfaces)
1. Vout programming accuracy (*15) | Image: state | 0~5V or 0~10V
0~5V or 0~10V
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e. Accuracy: +/-
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monitor signal.
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5.Output current monitor (*14)
5. CV/CC signal
5. LOCAL/REMOTE Analog control
4. LOCAL/REMOTE Analog signal
5. ENABLE/DISABLE signal
5. ENABLE/DISABLE signal
5. 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. Slew rate control
5. Slew rate control
7. Arbitrary waveforms
PROGRAMMING AND READBACK (USB, LAN
RES232/485, Optional IEEE (*16) Interfaces)
1.Vout programming accuracy (*14) | 4E OUTPUT | 0~5V or 0~10V
0~5V or 0~10V
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5.Output current monitor (*14)
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h. Tr,TF=1us Ma
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6.Output current monitor (*14)
SIGNALS AND CONTROLS (ISOLATED FROM TH
1. Power supply OK #1 signal
2. CV/CC signal
3. LOCAL/REMOTE Analog control
4. LOCAL/REMOTE Analog signal
5. ENABLE/DISABLE signal
6. INTERLOCK (ILC) control
7. Programmed signals
8. TRIGGER IN / TRIGGER OUT signals
9. DAISY_IN/SO control signal
10. DAISY_OUT/PS_OK #2 signal
FUNCTIONS AND FEATURES
1. Parallel operation
2. Series operation
2. Series operation
3. Daisy chain
4. Constant power control
5. Output resistance control
6. Slew rate control
7. Arbitrary waveforms
PROGRAMMING AND READBACK (USB, LAN
RS232/48S, Optional IEEE (*16) Interfaces)
1.Vout programming accuracy (*14)
3.Vout programming resolution
4.Jout programming resolution | | 0~5V or 0~10V
0~5V or 0~10V
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6.Output current monitor (*14)
SIGNALS AND CONTROLS (ISOLATED FROM TH
1. Power supply OK #1 signal
2. CV/CC signal
3. LOCAL/REMOTE Analog control
4. LOCAL/REMOTE Analog signal
5. ENABLE/DISABLE signal
6. INTERLOCK (ILC) control
7. Programmed signals
8. TRIGGER IN / TRIGGER OUT signals
9. DAISY_IN/SO control signal
10. DAISY_OUT/PS_OK #2 signal
7. Parallel operation
2. Series operation
3. Daisy chain
4. Constant power control
5. Output resistance control
5. Selw rate control
5. Selw rate control
5. Selw rate control
7. Arbitrary waveforms
PROGRAMMING AND READBACK (USB, LAN
RS232/485, Optional IEEE (*16) Interfaces)
1. Vout programming accuracy (*15)
2. Jout programming resolution
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4. Jout programming resolution
5. Vout readback accuracy | Image: section of the section of t | 0~5V or 0~10V
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2. CV/CC signal
3. LOCAL/REMOTE Analog control
4. LOCAL/REMOTE Analog signal
5. ENABLE/DISABLE signal
6. INTERLOCK (ILC) control
7. Programmed signals
8. TRIGGER IN / TRIGGER OUT signals
9. DAISY_IN/SO control signal
10. DAISY_OUT/PS_OK #2 signal
FUNCTIONS AND FEATURES
1. Parallel operation
2. Series operation
2. Series operation
3. Daisy chain
4. Constant power control
5. Output resistance control
6. Slew rate control
7. Arbitrary waveforms
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. INTERLOCK (ILC) control
. Programmed signals
. TRIGGER IN / TRIGGER OUT signals
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. Output resistance control
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5. 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
7. Parallel operation
2. Series operation
3. Daisy chain
4. Constant power control
5. Slew rate control
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7. Arbitrary waveforms
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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
5. Slew rate control
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7. Arbitrary waveforms
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5. Slew rate control
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7. Arbitrary waveforms
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FUNCTIONS AND FEATURES
1. Parallel operation
2. Series 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
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1.Vout programming accuracy (*14)
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GENESYS[™] GH1.5kW SERIES SPECIFICATIONS

OUTPUT RATING	GH	10-150	20-75	30-50	40-38	60-25	80-19	100-15	150-10	300-5	600-2.6	
1.Rated output voltage(*1)	V	10	20	30	40	60	80	100	150	300	600	
2.Rated output current (*2) 3.Rated output power	A W	150 1500	75 1500	50 1500	38 1520	25 1500	19 1520	15 1500	10 1500	5 1500	2.6	
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INPUT CHARACTERISTICS 1.Input voltage/freq. (*3)	V	10 85265Vac.co	20 ntinuous, 47~6	30 2Hz Singlo Phy	40	60	80	100	150	300	600	
2. Maximum Input current at 100% load (100/200)	A	18.5/9	nunuous, 4/~0	SHZ, SINGLE PILA	Se			-				
3.Power Factor (Typ)			0.98 @ 200Va	, rated output	power.							
4.Efficiency at 100 Vac/200Vac, rated output (*19)	%	86/88	87/89	87/89	87/89	87/89	87/89	88/90	88/90	88/90	88/90	
5.Inrush current (*5)	Α	Less than 50A										
CONSTANT VOLTAGE MODE	V	10	20	30	40	60	80	100	150	300	600	
1.Max. Line regulation (*6)		0.01% of rated	output voltage				•					
2.Max. Load regulation (*7)		0.01% of rated	output voltage	+2mV								
3.Ripple and noise (p-p, 20MHz) (*8)	mV	50	50	50	60	60	75	130	75	180	500	
4.Ripple r.m.s. 5Hz~1MHz (*8)	mV	6	6	6	7	7	8	30	20	45	100	
5.Temperature coefficient	PPM/°C											
6.Temperature stability			Vout over 8hrs		-	· · ·		& temp.				
7. Warm-up drift			% of rated outp			.					· · · · · ·	
8.Remote sense compensation/wire (*10)	V	2	2	5	5	5	5	5	5	5	5	
9.Up-prog. Response time (*11)	mS	20	20	20	20	20	20	20	30	30	40	
10.Down-prog.response time:	mS	20	20	20	30	30	50	50	60	70	80	
No load (*12)	mS	300 Time (500	600	900	1200	1300	1700	2200	2700	3000	
11.Transient response time	mS	Local sense. Le	ut voltage to rec ess than 1mS, fo	r models up to	and including	ucput for a load 100V. 2mS. for n	a change 10~90 nodels above 10	000 of rated out 00V.	out current. Ou	iput set-point:	10~100%,	
12.Start up delay	Sec	Less than 6 Sec				.,						
13.Hold-up time	mS		ated output po	wer								
CONSTANT CURRENT MODE	v	10	20	30	40	60	00	100	150	200	600	
1.Max. Line regulation (*6)					40	60	80	100	150	300	600	
2.Max. Load regulation (*9)			output current									
3.Ripple r.m.s. @ rated voltage. B.W 5Hz~1MHz. (*13		≤250	≤130	≤100	≤60	≤50	≤30	≤40	≤10	≤8	≤5	
5.Temperature coefficient	PPM/°C	10V~100V 1	00PPM/°C from	rated output o	urrent, followi	ng 30 minutes v	varm-up.	540	510	50	22	
6.Temperature stability		150V~600V 70PPM/°C from rated output current, following 30 minutes warm-up. 0.01% of rated lout over 8hrs. interval following 30 minutes warm-up. Constant line, load & temperature.										
7. Warm-up drift		10V~100V model: Less than +/-0.25% of rated output current over 30 minutes following power on. 150V~600V: Less than +/-0.15% of rated output current over 30 minutes following power on.										
ANALOG PROGRAMMING AND MONITORING (ISOL						50 1111111111111	ioning ponere					
1.Vout voltage programming			or 0~10V, user	selectable Acc	uracy and linea	rity: +/-0 15% o	frated Vout				-	
2.lout voltage programming (*14)												
3.Vout resistor programming		0~100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: +/-0.4% of rated lout. 0~100%, 0~5/10Kohm full scale, user selectable. Accuracy and linearity: +/-0.5% of rated Vout.										
4.lout resistor programming (*14)		0~100%, 0~5/10Kohm full scale, user selectable. Accuracy and linearity: +/-0.5% of rated lout.										
5.Output voltage monitor		0~5V or 0~10V, user selectable. Accuracy: +/-0.5% of rated Vout.										
6.Output current monitor (*14)		0~5V or 0~10V, user selectable. Accuracy: +/-0.5% of rated lout.										
SIGNALS AND CONTROLS (ISOLATED FROM THE O	UTPUT)											
1. Power supply OK #1 signal												
		Power supply	output monitor	. Open collecto	r. Output On: C	n. Output Off:	Off. Maximum \	/oltage: 30V, Mi	aximum Sink Cu	urrent: 10mA.	-	
2. CV/CC signal	1		output monitor r. Open collecto		•	•				urrent: 10mA.		
		CV/CC Monito	•	or. CC mode: On	. CV mode: Off.	Maximum Volt	age: 30V, Maxir	num Sink Curre	nt: 10mA.			
2. CV/CC signal		CV/CC Monito Enable/Disabl	r. Open collecto	or. CC mode: On amming contro	. CV mode: Off. I by electrical s	Maximum Volt gnal or dry con	age: 30V, Maxir tact. Remote: 0	num Sink Curre ~0.6V or short.	nt: 10mA. Local: 2~30V o	r open.	A.	
2. CV/CC signal 3. LOCAL/REMOTE Analog control		CV/CC Monito Enable/Disabl analog progra	r. Open collecto e analog progra	r. CC mode: On amming contro monitor signal.	. CV mode: Off. I by electrical s Open collector.	Maximum Volt gnal or dry con Remote: On. Lo	age: 30V, Maxir tact. Remote: 0 cal: Off. Maxim	num Sink Curre ~0.6V or short. um Voltage: 30\	nt: 10mA. Local: 2~30V o /, Maximum Sin	r open.	A.	
2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal	 	CV/CC Monito Enable/Disabl analog progra Enable/Disabl	r. Open collecto e analog progra mming control i	r. CC mode: On amming contro monitor signal. electrical signa	. CV mode: Off. I by electrical s Open collector. I or dry contact	Maximum Volt gnal or dry con Remote: On. Lo . 0~0.6V or sho	age: 30V, Maxir tact. Remote: 0 cal: Off. Maxim rt, 2~30V or ope	num Sink Curre ~0.6V or short. um Voltage: 30\ en. User selecta	nt: 10mA. Local: 2~30V o /, Maximum Sin ble logic.	r open.	A.	
2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal	 	CV/CC Monito Enable/Disabl analog progra Enable/Disabl Enable/Disabl Two open drai	r. Open collecto e analog progra mming control i e PS output by o e PS output by o n programmab	r. CC mode: On amming contro nonitor signal. electrical signal electrical signal le signals. Maxi	. CV mode: Off. I by electrical s Open collector. I or dry contact I or dry contact mum voltage 2	Maximum Volt gnal or dry con Remote: On. Lo .0~0.6V or shot .Remote: 0~0.6 5V, Maximum s	age: 30V, Maxir tact. Remote: 0 ical: Off. Maxim rt, 2~30V or ope iV or short. Loca ink current 100	num Sink Curre ~0.6V or short. um Voltage: 30\ en. User selecta al: 2~30V or ope mA (Shunted b	nt: 10mA. Local: 2~30V o /, Maximum Sin ble logic. en. y 27V zener)	r open. k Current: 10m/		
2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control	 	CV/CC Monito Enable/Disabl analog progra Enable/Disabl Enable/Disabl Two open drai Maximum lo	r. Open collecto e analog progra mming control i e PS output by e e PS output by e	r. CC mode: On amming contro monitor signal. electrical signal electrical signal le signals. Maxi roltage = 0.8V	. CV mode: Off. I by electrical s Open collector. I or dry contact I or dry contact mum voltage 2 Minimum hig	Maximum Volt gnal or dry con Remote: On. Lo .0~0.6V or shor . Remote: 0~0.6 5V, Maximum s sh level input	age: 30V, Maxir tact. Remote: 0 cal: Off. Maxim rt, 2~30V or ope V or short. Loco ink current 100 voltage = 2.5 ¹	num Sink Curre ~0.6V or short. um Voltage: 30V en. User selecta al: 2~30V or ope mA (Shunted b V, Maximum h	nt: 10mA. Local: 2~30V o /, Maximum Sin ble logic. en. y 27V zener)	r open. k Current: 10m/		
2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal		CV/CC Monito Enable/Disabl analog progra Enable/Disabl Enable/Disabl Two open drai Maximum lo trigger: tw=1 By electrical V	r. Open collector e analog progra mming control I e PS output by e PS output by n programmab w level input v Ous minimum oltage: 0~0.6V/	r. CC mode: On amming contro monitor signal. electrical signal electrical signal electrical signal le signals. Maxi roltage = 0.8V 1. Tr,Tf=1us Ma 2~30V or dry cc	. CV mode: Off. I by electrical s Open collector. I or dry contact or dry contact mum voltage 2 ,Minimum hic ximum, Min c	Maximum Volt gnal or dry con Remote: On. Lo .0~0.6V or shor . Remote: 0~0.6 5V, Maximum s sh level input	age: 30V, Maxir tact. Remote: 0 cal: Off. Maxim rt, 2~30V or ope V or short. Loco ink current 100 voltage = 2.5 ¹	num Sink Curre ~0.6V or short. um Voltage: 30V en. User selecta al: 2~30V or ope mA (Shunted b V, Maximum h	nt: 10mA. Local: 2~30V o /, Maximum Sin ble logic. en. y 27V zener)	r open. k Current: 10m/		
2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals		CV/CC Monito Enable/Disabl analog progra Enable/Disabl Enable/Disabl Two open drai Maximum lo trigger: tw=1 By electrical V	r. Open collecto e analog progra mming control i e PS output by o e PS output by o n programmab w level input v Ous minimum	r. CC mode: On amming contro monitor signal. electrical signal electrical signal electrical signal le signals. Maxi roltage = 0.8V 1. Tr,Tf=1us Ma 2~30V or dry co	. CV mode: Off. I by electrical s Open collector. I or dry contact or dry contact mum voltage 2 ,Minimum hic ximum, Min c	Maximum Volt gnal or dry con Remote: On. Lo .0~0.6V or shor . Remote: 0~0.6 5V, Maximum s sh level input	age: 30V, Maxir tact. Remote: 0 cal: Off. Maxim rt, 2~30V or ope V or short. Loco ink current 100 voltage = 2.5 ¹	num Sink Curre ~0.6V or short. um Voltage: 30V en. User selecta al: 2~30V or ope mA (Shunted b V, Maximum h	nt: 10mA. Local: 2~30V o /, Maximum Sin ble logic. en. y 27V zener)	r open. k Current: 10m/		
2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal		CV/CC Monito Enable/Disabl analog progra Enable/Disabl Enable/Disabl Two open drai Maximum lo trigger: tw=1 By electrical V	r. Open collector e analog progra mming control I e PS output by e PS output by n programmab w level input v Ous minimum oltage: 0~0.6V/	r. CC mode: On amming contro monitor signal. electrical signal electrical signal electrical signal le signals. Maxi roltage = 0.8V 1. Tr,Tf=1us Ma 2~30V or dry co	. CV mode: Off. I by electrical s Open collector. I or dry contact or dry contact mum voltage 2 ,Minimum hic ximum, Min c	Maximum Volt gnal or dry con Remote: On. Lo .0~0.6V or shor . Remote: 0~0.6 5V, Maximum s sh level input	age: 30V, Maxir tact. Remote: 0 cal: Off. Maxim rt, 2~30V or ope V or short. Loco ink current 100 voltage = 2.5 ¹	num Sink Curre ~0.6V or short. um Voltage: 30V en. User selecta al: 2~30V or ope mA (Shunted b V, Maximum h	nt: 10mA. Local: 2~30V o /, Maximum Sin ble logic. en. y 27V zener)	r open. k Current: 10m/		
2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal		CV/CC Monito Enable/Disabl analog progra Enable/Disabl Enable/Disabl Two open drai Maximum lov trigger: tw=1 By electrical V 4~5V=OK, 0V I	r. Open collector e analog progra mming control I e PS output by e PS output by n programmab w level input v Ous minimum oltage: 0~0.6V/	r. CC mode: On mmming contro monitor signal. electrical signal electrical signal ele signals. Maxi roltage = 0.8V . Tr,Tf=1us Ma 2~30V or dry cc lance)=Fail	. CV mode: Off. I by electrical s Open collector. I or dry contact or dry contact mum voltage 2 ,Minimum hig ximum, Min contact.	Maximum Volt gnal or dry con Remote: On. Lo 0~0.6V or shoi Remote: 0~0.6 5V, Maximum s jh level input lelay between	age: 30V, Maxir tact. Remote: 0 cal: Off. Maxim rt, 2~30V or ope iV or short. Locc ink current 100 voltage = 2.5 2 pulses 1ms	num Sink Curre ~0.6V or short. um Voltage: 30V en. User selecta al: 2~30V or ope mA (Shunted b V, Maximum h	nt: 10mA. Local: 2~30V o /, Maximum Sin ble logic. en. y 27V zener)	r open. k Current: 10m/		
2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES		CV/CC Monito Enable/Disabl analog progra Enable/Disabl Two open drai Maximum loi trigger: tw=1 By electrical Vi 4~5V=OK, 0V for Possible. Up to	r. Open collecto e analog progra mming control # e PS output by e e PS output by e n programmab w level input t Ous minimum oltage: 0~0.6V/ 500ohm imped	r. CC mode: On amming contro monitor signal. electrical signal electrical signal le signals. Maxi oltage = 0.8V i. Tr.Tf=1us Ma 2~30V or dry cc lance)=Fail ts in Master/Sla	. CV mode: Off. I by electrical s Open collector. I or dry contact I or dry contact mum voltage 2 Minimum hin ximum, Min c ontact. ve mode. Refer	Maximum Volt gnal or dry con Remote: On. Lo 0~0.6V or shoi Remote: 0~0.6 5V, Maximum s jh level input lelay between	age: 30V, Maxir tact. Remote: 0 cal: Off. Maxim rt, 2~30V or ope iV or short. Locc ink current 100 voltage = 2.5 2 pulses 1ms	num Sink Curre ~0.6V or short. um Voltage: 30V en. User selecta al: 2~30V or ope mA (Shunted b V, Maximum h	nt: 10mA. Local: 2~30V o /, Maximum Sin ble logic. en. y 27V zener)	r open. k Current: 10m/		
2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation		CV/CC Monito Enable/Disabl analog progra Enable/Disabl Two open drai Maximum loi trigger: tw-3 By electrical Vi 4~5V=OK, 0V Possible. Up to Possible. Two	r. Open collectc e analog progra mming control # e PS output by e e PS output by e n programmab w level input t Ous minimum oltage: 0~0.6W/ 500ohm impec	rr. CC mode: On mming contro monitor signal. electrical signal electrical signal electrical signals. Maxi voltage = 0.8V . Tr,TF= lus Ma voltage = 0.8V . Tr,TF= lus Ma ->30V or dry co lance)=Fail ts in Master/Sla Refer to instruc	. CV mode: Off. I by electrical s Open collector. I or dry contact or dry contact mum voltage 2 "Minimum hig ximum, Min c ontact. ve mode. Refer tion manual.	Maximum Volt gnal or dry con Remote: On. Lo 0~0.6V or shoi. Remote: 0~0.6 SV, Maximum s yh level input lelay between to instruction i	age: 30V, Maxir tact. Remote: 0 cal: Off. Maxim rt, 2~30V or ope V or short. Loc. V or short. Loc. V or short. 2005 voltage = 2.5% 2 pulses 1ms manual.	num Sink Curre ~0.6V or short. um Voltage: 300 en. User selecta al: 2~30V or ope mA (Shunted b V, Maximum h	nt: 10mA. Local: 2~30V o /, Maximum Sin ble logic. en. y 27V zener)	r open. k Current: 10m/		
2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation		CV/CC Monito Enable/Disabl analog progra Enable/Disabl Two open drai Maximum lo trigger: tw=1 By electrical Vi 4~5V=OK, 0V I Possible. Up tc Possible. Up tc	r. Open collectc e analog progra mming control I e PS output by e e PS output by e n programmab w level input v Ous minimum oltage: 0~0.6W/ 500ohm impec	r. CC mode: On mming contro monitor signal. electrical signal electrical signal electrical signal ele signals. Maxi roltage = 0.8V . Tr.TE=Lus Ma 2~30V or dry cc lance)=Fail ts in Master/Sla Refer to instruc cted in Daisy ch	. CV mode: Off. I by electrical s Open collector. I or dry contact I or dr	Maximum Volt gnal or dry con Remote: On. Lo 0~0.6V or shor Remote: 0~0.6 5V, Maximum s gh level input lelay between to instruction n nize their turn-o	age: 30V, Maxir tact. Remote: 0 cal: Off. Maxim rt, 2~30V or ope iV or short. Loc. iN current 100 voltage = 2.5 2 pulses 1ms manual.	num Sink Curre ~0.6V or short. um Voltage: 30 en. User selecta al: 2~30V or ope MA (Shunted b V, Maximum h	nt: 10mA. Local: 2~30V o , Maximum Sin ble logic. en. y 27V zener) igh level inpu	r open. k Current: 10m/		
2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain		CV/CC Monito Enable/Disabl analog progra Enable/Disabl Enable/Disabl Two open drai Maximum lov trigger: tw=1 By electrical V 4~5V=OK, 0V f Possible. Up to Possible. Up to Possible. Two i Power supplie Limits the out	r. Open collector e analog progra mming control I e PS output by é e PS output by é n programmab w level input v Ous minimum oltage: 0~0.6V/ 500ohm impeo e 4 identical units. s can be connect	r. CC mode: On mming contro monitor signal. electrical signal electrical signal electrical signal ele signals. Maxi roltage = 0.8V . Tr.Tf=1us Ma 2~30V or dry cc lance)=Fail ts in Master/Sla ts in Master/Sla ts in Master/Sla	. CV mode: Off. I by electrical s Open collector. I or dry contact I or dry contact mum voltage 2 Minimum hig ximum, Min contact. ve mode. Refer tion manual. ain to synchroi value. Program	Maximum Volt gnal or dry con Remote: On. Lo 0~0.6V or shoi Remote: 0~0.6 SV, Maximum s sh level input lelay between to instruction i nize their turn ming via the co	age: 30V, Maxir tact. Remote: 0 ccal: Off. Maxim rt, 2~30V or ope iV or short. Loc. iN current 100 voltage = 2.5 ¹ 2 pulses 1ms nanual.	num Sink Curre ~0.6V or short. um Voltage: 300 en. User selecta al: 2~30V or ope mA (Shunted b /, Maximum h	nt: 10mA. Local: 2~30V o , Maximum Sin ble logic. en. y 27V zener) igh level inpu	r open. kCurrent: 10m/ it = 5V positiv		
2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control		CV/CC Monito Enable/Disabl analog progra Enable/Disabl Two open drai Maximum loo trigger: tw=1 By electrical Vi 4~5V=OK, 0V / Possible. Two Possible. Two Power supplie Limits the out Emulates serie Programmabl	r. Open collector e analog progra mming control I e PS output by e e PS output by e e PS output by e e PS output by e e PS output by e output to the pS output by e output to the pS output by e output to the pS output by e output by e	r. CC mode: On mming contro monitor signal. electrical signal electrical signal elesignals. Maxi voltage = 0.8V Tr,Tf=1us Ma 2~30V or dry cc lance)=Fail ts in Master/Sla Refer to instruc cted in Daisy ch oroggrammed sistance ranges	. CV mode: Off. I by electrical s Open collector. I or dry contact or dry contact or dry contact mum voltage 2 ,Minimum hig ximum, Min contact. we mode. Refer tion manual. ain to synchroi value. Program 1~1000mΩ. Pri	Maximum Volt gnal or dry con Remote: On. Lo 0~0.6V or shoi Remote: 0~0.6 5V, Maximum s 5V, Maximum s 5V, Maximum s to instruction in hize their turn- ming via the co ogramming via	age: 30V, Maxir tact. Remote: 0 cal: Off. Maxim t, 2~30V or ope iV or short. Loc: iv or short. Loc: voltage = 2.5 1 2 pulses 1ms manual. on and turn-off mmunication p i the communic	num Sink Curre ~0.6V or short. um Voltage: 30\ en. User selecta al: 2~30V or ope mA (Shunted b V, Maximum h	nt: 10mA. Local: 2~30V o , Maximum Sin ble logic. en. y 27V zener) igh level inpu igh level inpu st panel. he front panel.	r open. kCurrent: 10m/ it = 5V positiv	e edge	
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GENESYS[™] GH1kW/1.5kW SERIES SPECIFICATIONS

PROTECTIVE FUNCTIONS		v	10	20	30	40	60	80	100	150	300	600		
1.Foldback protection								Limit to CC mod witch, by OUTPL				۱.		
2.Over-voltage protection (OV	?)		Output shut-d	own. Reset by	AC input recyc	le in autostart n	node, by OUTP	UT button, by re	ear panel or by	communicatio	n.			
3.Over -voltage programming		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			+/-1% of rated	output voltag	e		•	•						
5.Output under voltage limit (L	IVL)		Prevents from	adjusting Vou	t below limit. D	oes not apply i	n analog progr	amming. Preset	by front panel	or communica	tion port.			
6.Over temperature protection			Shuts down th	e output. Auto	o recovery by au	utostart mode.					·			
7. Output under voltage limit (l	JVL)		Prevents adjus	revents adjustment of Vout below limit.										
8. Output under voltage protec	tion (UVP)		Prevents adjus Power Switch,	tment of Vout by OUTPUT b	t below limit. P.S utton, by rear pa	output turns C anel or by comr	Off during unden nunication.	er voltage condi	tion. Reset by	AC input recyc	e in autostart m	iode, by		
FRONT PANEL														
1.Control functions			Multiple optio	ns with 2 Enco	oders									
				Multiple options with 2 Encoders Vout/lout/Power Limit manual adjust										
			OVP/UVL/UVP											
					JVL,UVP, Foldba	ack. OCL. ENA. I	LC							
								otional commur	ication interfa	ce.				
			Output ON/OF			1,1222,110202,11	100/000 01 01							
						ud Rate, Addres	s, IP and comm	nunication lang	uage.					
				Communication Functions - Selection of Baud Rate, Address, IP and communication language. Analog Control Functions - Selection Voltage/resistive programming, 5V/10V, 5K/10K programming										
					Selection of Vol									
2.Display														
2.015pluy			iout: 4 digits, accuracy: 0.05% of rated output voltage +/-1 count. but: 4 digits, accuracy: 0.2% of rated output current +/-1 count.											
3. Front Panel Buttons Indicatio	ns							NFIGURATION,	SYSTEM SEOUR	NCER				
5. Tone Tune Ductions indicatio	115										D ()	·		
4. Front Panel Display Indicatio	ns		RS/USB/LAN/II	Voltage, Current, Power, CV, CC, CP, External Voltage, External Current, Address, LFP, Autostart, Safetstart, Foldback V/I, Remote (communication), RS/USB/LAN/IEEE communication, Trigger, Load/Store Cell.										
ENVIRONMENTAL CONDITION	IS													
1.Operating temperature			0~50°C, 100%	load.										
2.Storage temperature			-30~85°C											
3.Operating humidity		%		20~90% RH (no condensation).										
		%		10~95% RH (no condensation).										
4.Storage humidity						1								
5.Altitude			Operating: 100	00ft (3000m),	output current	derating 2%/10	0m or Ta derat	ing 1°C/100m al	oove 2000m. N	on operating: 4	10000ft (12000m	1).		
MECHANICAL														
1.Cooling			Forced air coo	ing by interna	al fans. Air flow	direction: from	Front panel to	power supply re	ar					
2.Weight		kg	Less than 3.5k	Forced air cooling by internal fans. Air flow direction: from Front panel to power supply rear										
Z.weight		ĸġ		5										
3.Dimensions (WxHxD)		mm	W: 214, H: 43	W: 214, H: 43.6, D: 432 (Without busbars and busbars cover), W: 214, H: 43.6, D: 493 (Including busbars and busbars cover) (Refer to Outline drawing).										
4.Vibration			MIL-810G, method 514.6, Procedure I, test condition Annex C - 2.1.3.1											
5.Shock			Less than 20G, half sine, 11mSec. Unit is unpacked.											
SAFETY/EMC														
1.Applicable standards:	Safety GH1kW/1.5kW		UL61010-1.CS	A22.2 No. 6101	0-1, IEC61010-1	EN61010-1								
							& 19 (communi	cation options)	are Non Hazar	lous				
1.1. Interface classification	GH1kW/1.5kW							, J6, J7 & J9 (con			Hazardous.			
			Vout≤50V Mod	lels: Input – O	utput & J8 (sens	e), J1, J2. J3. J4.	J5, J6, J7 & J9 (communication	options): 4242	VDC 1min.				
				•		-,,,-,-,-,,	,,							
			Input - Ground: 2835VDC 1min.											
			60V≤Vout≤100V Models: Input – Output & J8 (sense), J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VDC 1min,											
	C		Output & J8 (sense) - J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 850VDC 1min. Output & J8 (sense) - Ground: 1500VDC 1min, Input - Ground: 2835VDC 1min.											
1.2 Withstand voltage	GH1kW/1.5kW													
				100V <vout≤600v &="" (communication="" (sense),="" 1min.<="" 4242vdc="" and="" input="" j1,="" j2,="" j3,="" j4,="" j5,="" j6,="" j7="" j8="" j9="" models:="" options):="" output="" td="" –=""><td></td></vout≤600v>										
			Output & J8 (sense) - J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 1275VDC 1min.											
			Output & J8 (se	ense) - Ground	l: 2500VDC 1mii	n.								
			Input - Ground	l: 2835VDC 1m	nin.									
1.3 Insulation resistance	1				Output to Groun			-						
2.Conducted emmision							ECC Dart 15 A							
ZAMUUUUUUU EU EUUUISIOU			ILC/LIN01204-3	muustiidi en	vironnent, ANN	EC/EN61204-3 Industrial environment, Annex H table H.1 , FCC Part 15-A, VCCI-A.								
			IFC /FN/C100 1 C	In all the State				+ 15 A MCCL *						
3.Radiated emission 4. EMC compliance	EMC (*4)		IEC/EN61204-3		vironment, Ann			rt 15-A, VCCI-A						

 Intervent
 Intervent
 Intervent

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

 *1: Minimum current is guaranteed to maximum 0.1% of rated output voltage.
 *2: Minimum current is guaranteed to maximum 0.2% of rated output current.

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

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

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

 *6: 85-7132Vac 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 100-150V models: Measured with EITA RC-9131C (1:1) probe. For 200~600V model: Measured with 100:1 probe.

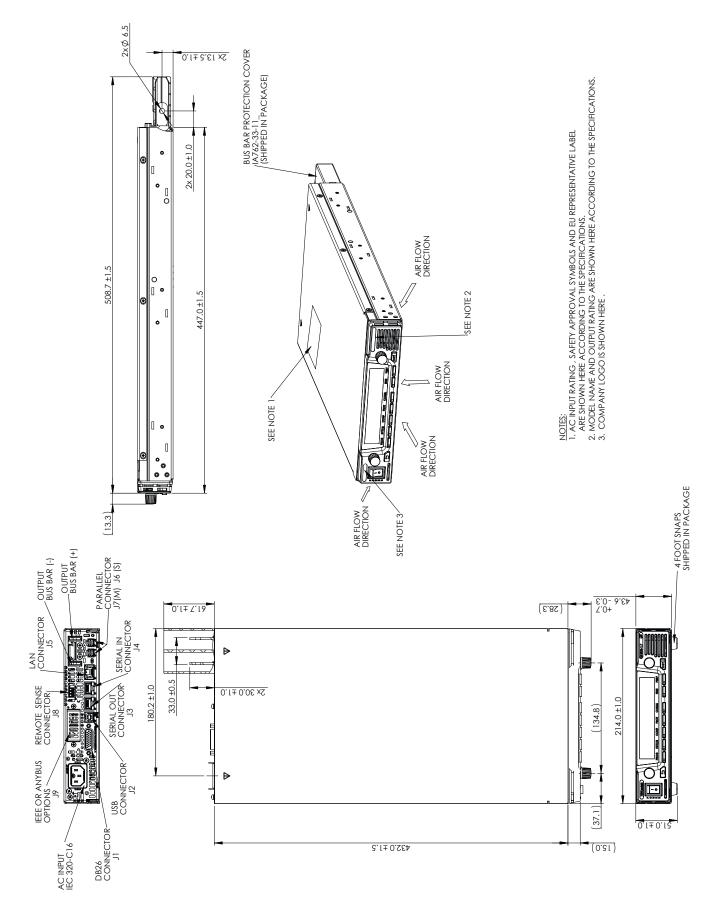
 *9: For load voltage change, equal to the unit voltage rating, constant input voltage.

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

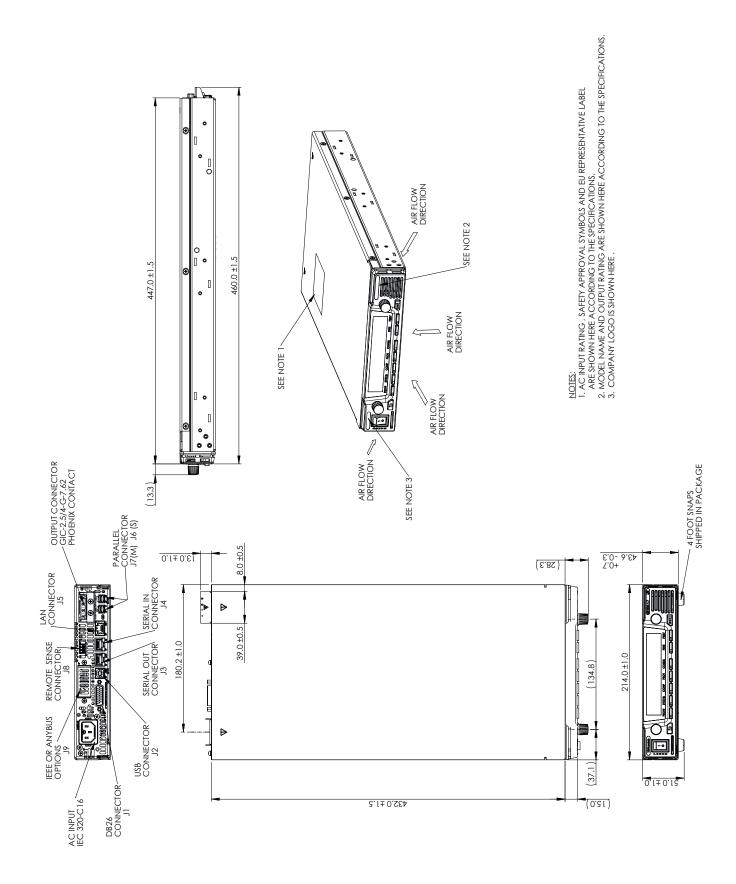
 *11: From 10% to 90% of Rated Output Voltage.

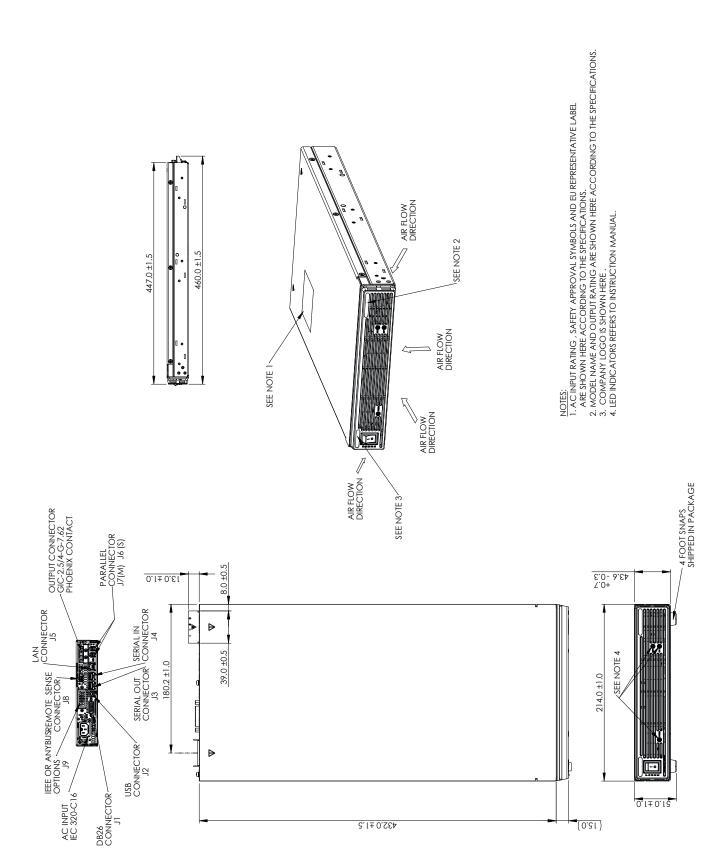
 *13: For 10V models, the ripple is measured at 10~100% of rated output voltage and rated output current. For other models, the ripple is measured at 10~100% of rated output voltage and rated output current. For other models, the ripple is measured at 10~100% of rated output voltage and rated output current.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

Outline Drawing GENESYS[™] GH1kW (10V-100V)



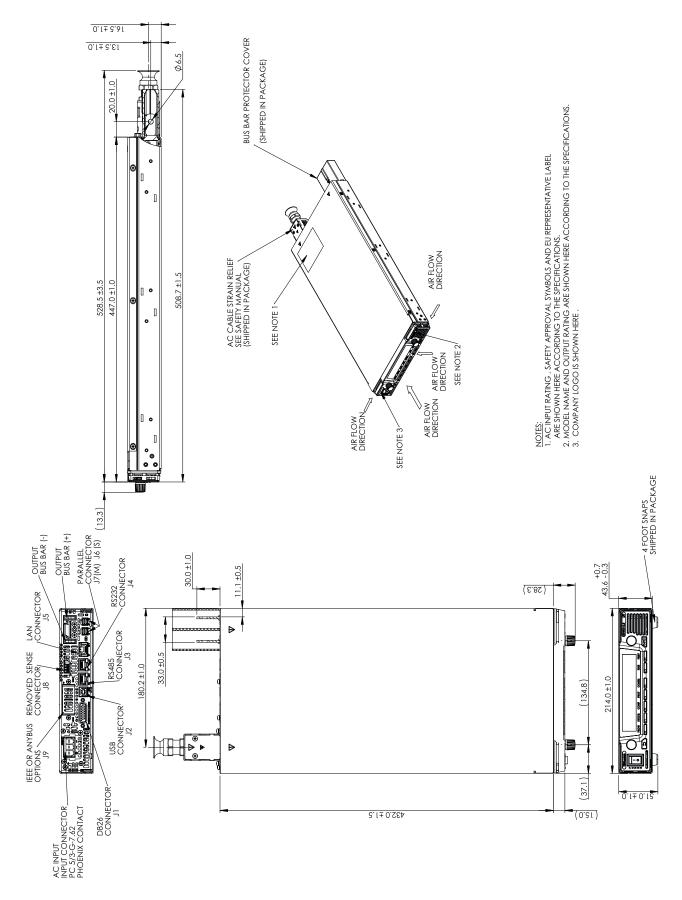
Outline Drawing GENESYS[™] GH1kW (150V-600V)

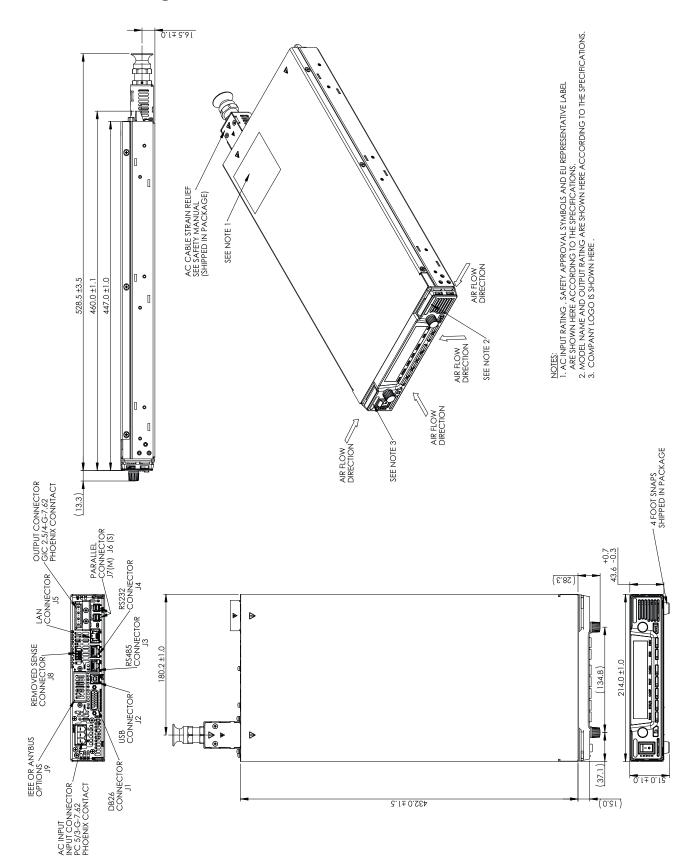




Outline Drawing GENESYS[™] GHB1kW

Outline Drawing GENESYS[™] GH1.5kW (10V-100V)

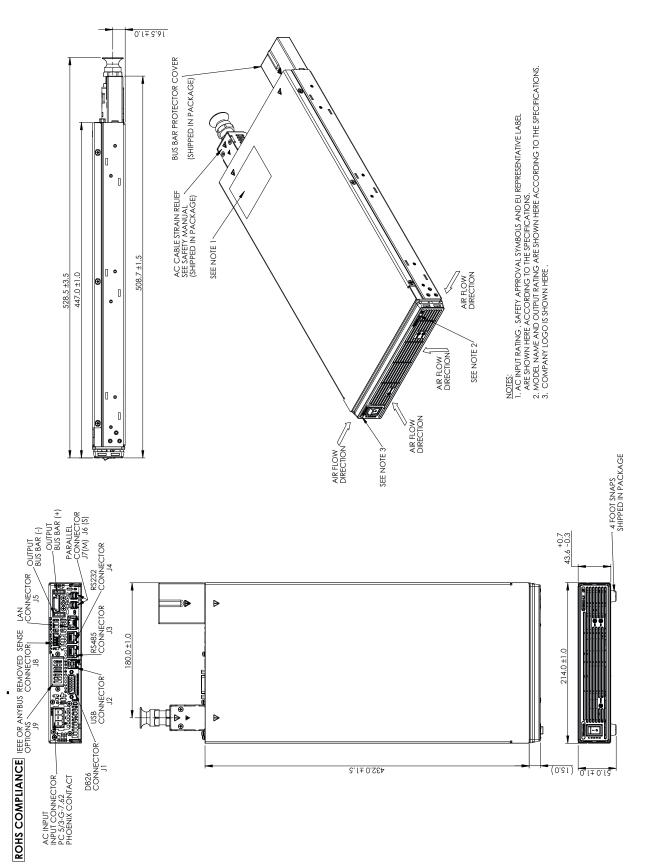




Outline Drawing GENESYS[™] GH1.5kW (150V-600V)

TDK·Lambda





Outline Drawing GENESYS[™] GHB1.5kW