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Improved Specifications

Genesys™

GENH Series
Programmable DC Power Supplies
750W in 1U Half-Rack Size
Built in RS-232 & RS-485 Interface
Advanced Parallel Operation

Optional Interface:
LXI Compliant LAN
IEEE488.2 SCPI (GPIB) Multi-drop
Isolated Analog Programming



Genesys™ Family

GenH	750W Half Rack
Gen1U	750/1500W Full Rack
Gen2U	3.3/5kW

TDK·Lambda

Genesys™ GENH750W-1U

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

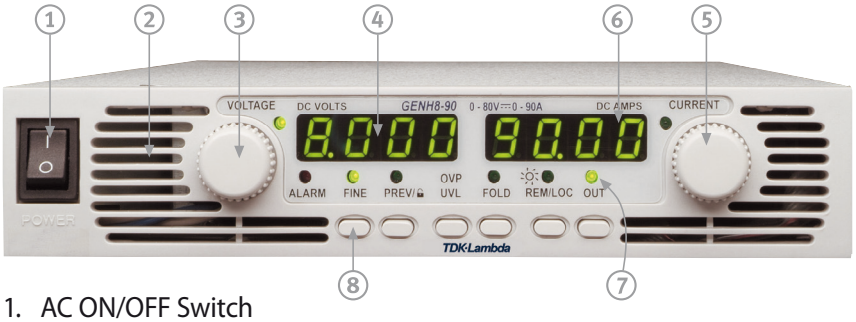
Features include:

- High Power Density available: 750W in 1U half-rack size.
- Wide Range Input (85 - 265Vac Continuous)
- Active Power Factor Correction (0.99 typical)
- Output Voltage up to 600V, Current up to 100A
- Built-in RS-232/RS-485 Interface
- Front Panel Lockout
- Last-Setting Memory
- High Resolution 16 bit ADCs & DACs
- Reliable Encoders for Voltage and Current Adjustment
- Constant Voltage/Constant Current auto-crossover
- Advanced Parallel reports total current up to four identical units
- Global Commands for Serial RS-232/RS-485 Interface
- Independent Remote ON/OFF and Remote Enable/Disable
- External Analog Programming and Monitoring
- Reliable Modular and SMT Design
- 19" Rack Mounted ATE benchtop and OEM applications
- Side-by-side mounting of two units in a 19" rack
- Optional Interfaces
  Isolated Analog Programming and Monitoring Interface (0-5V/0-10V & 4-20mA)
  IEEE 488.2 SCPI (GPIB) Multi-Drop
  LXI Compliant LAN
- LabView® and LabWindows® drivers
- Five Year Warranty

c UL us LISTED TÜV Rheinland GS geprüfte Sicherheit CE

Worldwide Safety Agency Approvals; CE Mark for LVD and EMC Regulation

Front Panel Description



1. AC ON/OFF Switch
2. Air Intake allows zero stacking for maximum system flexibility and power density.
3. Reliable encoder controls Output Voltage and sets Address.
4. Volt Display shows Output Voltage and directly displays OVP, UVL and Address settings.
5. Reliable encoder controls Output Current, sets baudrate and Advanced Parallel mode.
6. Current Display shows Output Current and displays baudrate.
7. Function/Status LEDs:

- Alarm
- Fine Control
- Preview Settings
- Foldback Mode
- Remote Mode
- Output On

8. Pushbuttons allow flexible user configuration
   - Coarse and Fine adjustment of Output Voltage/Current and Advanced Parallel Master or Slave
   - Preview settings and set Voltage/Current with Output OFF, Front Panel Lockout
   - Set OVP and UVL Limits
   - Set Current Foldback
   - Local/Remote Mode and select Address and Baudrate
   - Output ON/OFF and Auto-Start/Safe-Start Mode

Applications

Genesys™ power supplies are designed for demanding applications.

Common controls are shared across all platforms

Test and Measurement

Last-Setting memory simplifies test design and requires no battery backup.

Built-in RS-232/RS-485 gives maximum system flexibility along with 0-5V and 0-10V, selectable analog programming.

Wide range of available inputs allows testing of many different devices.

Semiconductor Processing and Burn-in

Safe-Start may be ENABLED to re-start at Output OFF to protect load.

Wide range input (85-265Vac) with Active Power Factor correction rides through input transients easily.

Component Test

High power density, zero stacking and single wire parallel operation give maximum system flexibility.

Laser Diode

OVP is directly set on Voltage Display, assuring accurate protection settings.

Current Limit Fold Back assures load is protected from current surges.

Heater Supplies

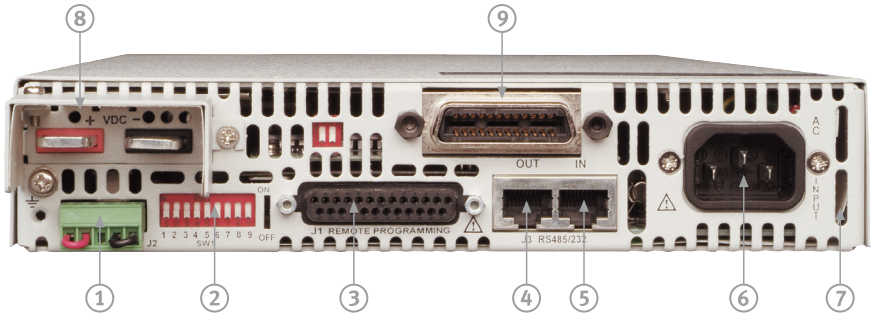
Smooth, reliable encoders enhance front panel control. Remote analog programming is user selectable 0-5V or 0-10V.

RF Amplifiers and Magnets

Robust design assures stable operation under a wide variety of loads.

High linearity in voltage and current mode.

Rear Panel Description



1. Remote/Local Output Voltage Sense Connections.
2. DIP Switches select 0-5V or 0-10V Programming and other functions.
3. DB25 (Female) connector allows (Non-isolated) Analog Program and Monitor and other functions.
4. RS-485 OUT to other Genesys™ Power Supplies.
5. RS-232/RS-485 IN Remote Serial Programming.
6. Wide-Range Input 85-265VAC continuous, 47/63Hz with Active Power Factor Correction (0.99 typical) AC Input Connector: IEC320.
7. Exit air assures reliable operation when zero stacked.
8. Output Connections: Rugged busbars for 6V up to 60V Output; Connector for Outputs >60V.
9. Optional Interface Position for IEEE 488.2 SCPI (shown) or Isolated Analog Interface or LAN Interface.

Genesys™ GENH750W Specifications

Specifications in Blue are improved

1.0 MODEL	GENH	6-100	8-90	12.5-60	20-38	30-25	40-19	60-12.5	80-9.5	100-7.5	150-5	300-2.5	600-1.3
1. Rated output voltage (*1)	V	6	8	12.5	20	30	40	60	80	100	150	300	600
2. Rated Output Current (*2)	A	100	90	60	38	25	19	12.5	9.5	7.5	5	2.5	1.3
3. Rated Output Power	W	600	720	750	760	750	760	750	760	750	750	750	780
4. Efficiency at 100/200Vac (*3)	%	76/78	77/80	81/84	82/85	82/85	83/87	83/87	83/87	83/87	83/87	83/87	83/87
1.1 CONSTANT VOLTAGE MODE													
1. Max.line regulation (0.01% of Vo+ 2mV)(*4)	mV	2.6	2.8	3.3	4	5	6	8	10	12	17	32	62
2. Max load regulation (0.01% of Vo+2mV)(*5)	mV	2.6	2.8	3.3	4	5	6	8	10	12	17	32	62
3. Ripple and noise p-p 20MHz (*9)	mV	60	50	60	60	50	60	60	75	75	75	130	300
4. Ripple r.m.s 5Hz~1MHz (*9)	mV	8	6	7	7.5	6	7	7	7	8	8	20	60
5. Remote sense compensation/line	V	1	1	1	1	1.5	2	3	4	5	5	5	5
6. Temp. coefficient	PPM/°C	50PPM/°C of rated output voltage, following 30 minutes warm up											
7.Temp. stability	%	0.01% of rated Vout over 8hrs interval following 30 minutes warm-up. Constant line, load & temp.											
8. Up-prog. response time, 0~Vo Rated	mS	80mS, N.L/F.L, resistive load							150mS, N.L/F.L, resistive load				250
9. Down-prog response time full-load	mS	10	50			80			150				250
10. Down-prog response time No-load	mS	500	600	700	800	900	1000	1100	1200	1500	2000	2500	4000
11. Transient response time (*8)	mS	Less than 1mSec for models up to and including 100V. 2mSec for models above 100V											
12. Temp. drift	%	0.01% of rated Vout over 8hrs interval following 30 minutes warm up. Constant line, load & temp.											
1.2 CONSTANT CURRENT MODE													
1. Max.line regulation (0.01% of Io+ 2mA)(*4)	mA	12	11	8.0	5.8	4.5	3.9	3.25	2.95	2.75	2.5	2.25	2.13
2. Max.load regulation (0.02% of Io+5mA)(*6)	mA	25	23	17	12.6	10	8.8	7.5	6.9	6.5	6.0	5.5	5.26
3. Ripple r.m.s 5Hz~1MHz . (*7)	mA	190	160	110	50	45	30	15	10	10	8	6	4
4. Temp. coefficient	PPM/°C	70PPM/°C from rated output voltage, following 30 minutes warm up											
5. Temp. stability	%	0.01% of rated Iout over 8hrs interval following 30 minutes warm up. Constant line, load & temp.											
6. Warm up drift	%	Less than 0.1% rated output current over 30 min following power on or output voltage / current change											
1.3 PROTECTIVE FUNCTIONS													
1. OCP		0~105% Constant Current											
2. OCP Foldback		Output shut down when power supply change from CV to CC. User selectable.											
3. OVP type		Inverter shut-down, manual reset by AC input recycle or by OUT button or by communication port											
4. OVP trip point		0.5~7.5V	0.5~10V	1~15V	1~24V	2~36V	2~44V	5~66V	5~88V	5~110V	5~165V	5~330V	5~660V
5. Over Temp Protection		User selectable, latched or non latched											
1.4 ANALOG PROGRAMMING AND MONITORING													
1. Vout Voltage Programming		0~100%, 0~5V or 0~10V, user select. Accuracy and linearity: +/-0.5% of rated Vout.											
2. Iout Voltage Programming		0~100%, 0~5V or 0~10V, user select. Accuracy and linearity: +/-1% of rated Iout.											
3. Vout Resistor Programming		0~100%, 0~5/10Kohm full scale,user select.,Accuracy and linearity: +/-1% of rated Vout.											
4. Iout Resistor Programming		0~100%, 0~5/10Kohm full scale,user select. Accuracy and linearity: +/-1.5% of rated Iout.											
5. On/Off control (rear panel)		By electrical. Voltage: 0~0.6V/2~15V, or dry contact, user selectable logic											
6. Output Current monitor		0~5V or 0~10V, accuracy: 1%, user selectable											
7. Output Voltage monitor		0~5V or 0~10V, accuracy: 1%, user selectable											
8. Power Supply OK signal		TTL high (4~5V) -OK, 0V-Fail 500ohm series resistance											
9. CV/CC indicator		Open collector, CC mode: On, CV mode: Off, Maximum voltage: 30V, maximum sink current: 10mA											
10. Enable/Disable		Dry contact. Open: off, Short: on. Max. voltage at Enable/Disable in: 6V											
11. Local/Remote analog control		By electrical signal or Open/Short: 0~0.6V or short: Remote, 2~15V or open: Local.											
12. Local/Remote analog control indicator		Open collector, Local: Open, Remote: On. Maximum voltage: 30V, maximum sink current: 5mA.											
1.5 FRONT PANEL													
1. Control functions		Vout/Iout manual adjust by separate encoders (coarse and fine adjustment selectable)											
		OVP/UVL manual adjust by Volt. Adjust encoder											
		AC on/off, Output on/off, Re-start modes (auto, safe), Foldback control (CV to CC), Go to local control											
		Address selection by Voltage (or current) adjust encoder. Number of addresses: 31											
		RS232/485 and IEEE488.2 selection by IEEE enable switch and DIP switch											
		Baudrate selection: 1200, 2400, 4800, 9600 and 19,200											
2. Display		Voltage 4 digits, accuracy: 0.05%+/-1 count											
		Current 4 digits, accuracy: 0.2%+/-1 count											
3. Indications		Voltage, Current, Alarm, Fine, Preview, Foldback, Local, Output On, Front Panel Lock											
1.6 Interface RS-232&RS-485 or Optional GPIB / LAN Interface													
Model	V	6	8	12.5	20	30	40	60	80	100	150	300	600
1. Remote Voltage Programming (16 bit)													
Resolution (0.02% of Vo Rated)	mV	0.12	0.16	0.25	0.4	0.6	0.8	1.2	1.6	2.0	3.0	6.0	12.0
Accuracy (0.05%Vo Rated Output voltage) (*11)	mV	3.0	4.0	6.3	10	15	20	30	40	50	75	150	300
2. Remote Current Programming (16 bit)													
Resolution (0.002% of Io Rated)	mA	2.00	1.80	1.20	0.76	0.50	0.38	0.25	0.19	0.15	0.10	0.05	0.03
Accuracy (0.1% of Io Rated+0.1% of Io Actual Output)(*10)	mA	200	180	120	76	50	38	25	19	15	10	5.0	2.6
3. Readback Voltage													
Resolution of Vo Rated	mV	0.12	0.16	1.125	1.20	1.20	1.2	1.2	1.60	11.0	10.50	12	12
Accuracy 0.05% Vo Rated	mV	3	4	6.3	10	15	20	30	40	50	75	150	300
4. Readback Current													
Resolution of Io Rated	mA	11	1.80	1.20	1.14	1.25	1.14	1.13	0.19	0.15	0.15	0.13	0.12
Accuracy 0.3% of Io Rated(*10)	mA	300	270	180	114	75	57	37.50	28.50	22.50	15	7.50	3.90
5. OVP/UVL Programming													
Resolution (0.1% of Vo Rated)	mV	6	8	12	20	30	40	60	80	100	150	300	600
Accuracy (1% of Vo Rated)	mV	60	80	125	200	300	400	600	800	1000	1500	3000	6000

*1: Minimum voltage is guaranteed to maximum 0.2% of Vo Rated.
*2: Minimum current is guaranteed to maximum 0.4% of Io Rated.
*3: At maximum output power.
*4: 85~132Vac or 170~265Vac, constant load.
*5: From No-load to Full-load, constant input voltage.
*6: For load voltage change, equal to the unit voltage rating, constant input voltage.
*7: For 6V models the ripple is measured at 2~6V output voltage and full output current. For other models, the ripple is measured at 10~100% output voltage and full output current.
*8: Time for the output voltage to recover within 0.5% of its rated for a load change 10~90% of rated output , Output set-point:10~100%.
*9: For 6V~300V models: measured with JEITA RC-9131A 1:1 probe. For 600V model: measured with 10:1 probe Accuracy -Values have been calculated at Vo Rated & Io Rated.
*10: The Constant Current programming readback and monitoring accuracy does not include the warm-up and Load regulation thermal drift.
*11: Measured at the sense point.

General Specifications Genesys™ GENH750W

2.1 INPUT CHARACTERISTICS	
1. Input voltage/freq. (*1)	85~265Vac continuous, 47~63Hz, single phase
2. Power Factor	0.99 @100/200Vac, rated output power.
3. EN61000-3-2,3 compliance	Complies with EN61000-3-2 class A and EN61000-3-3 at 20~100% output power.
4. Input current 100/200Vac	750W :10.5A / 5A,
5. Inrush current 100/200Vac	750W :Less than 25A,
6. Hold-up time	More than 20mS, 100Vac, at 100% load.

2.2 POWER SUPPLY CONFIGURATION	
1. Parallel Operation	Up to 4 units in master/slave mode with single wire current balance connection
2. Series Operation	Up to 2 units. with external diodes. 600V Max to Chassis ground

2.3 ENVIRONMENTAL CONDITIONS	
1. Operating temp	0~50°C, 100% load.
2. Storage temp	-20~70°C
3. Operating humidity	30~90% RH (non-condensing).
4. Storage humidity	10~95% RH (non-condensing).
5. Vibration	MIL-810E, method 514.4, test cond. I-3.3.1. The EUT is fixed to the vibrating surface.
6. Shock	Less than 20G, half sine, 11mSec. Unit is unpacked.
7. Altitude	Operating: 10000ft (3000m), Derat output current by 2%/100m above 2000m, Non operating: 40000ft (12000m).

2.4 EMC	
1. Applicable Standards:	
2. ESD	IEC1000-4-2. Air-disch. -8KV, contact disch. -4KV
3. Fast transients	IEC1000-4-4. 2KV
4. Surge immunity	IEC1000-4-5. 1KV line to line, 2KV line to ground
5. Conducted immunity	IEC1000-4-6, 3V
6. Radiated immunity	IEC1000-4-3, 3V/m
7. Conducted emission	EN55022B, FCC part 15J-B, VCCI-B.
8. Radiated emission	EN55022A, FCC part 15-A, VCCI-A.
9. Voltage dips	EN61000-4-11
10. Conducted emission	EN55022B, FCC part 15-B, VCCI-B.
11. Radiated emission	EN55022A, FCC part 15-A, VCCI-A.

2.5 SAFETY	
1.Applicable standards:	UL 60950-1, CSA22.2 No.60950-1, IEC 60950-1, EN 60950-1
2.Interface classification	Models with Vout 50V: Output is SELV, all communication/control interfaces (RS232/485, IEEE, Isolated Analog, LAN, Sense, Remote Programming and Monitoring) are SELV. Models with 60V Vout 400V: Output is Hazardous, communication/control interfaces: RS232/485, IEEE, Isolated Analog, LAN, Remote Programing and Monitoring (pins 1-3, pins14-16) are SELV, Sense, Remote Programming and Monitoring (pins 8-13, pins 21-25) are Hazardous. Models with 400V Vout 600V: Output is Hazardous, all communication/control interfaces (RS232/485, IEEE, Isolated Analog, LAN, Sense, Remote Programming and Monitoring) are Hazardous.
3.Withstand voltage	Vout 50V models : Input-Output (SELV): 4242VDC 1min, Input-communication/control (SELV): 4242VDC 1min, Input-Ground: 2828VDC 1min, 60V Vout 150V models: Input-Output (Hazardous): 3425VDC 1min, Input-communication/control (SELV): 4242VDC 1min, Output(Hazardous)-SELV: 2307VDC 1min, Output(Hazardous)-Ground: 1414VDC 1min, Input-Ground: 2828VDC 1min. 300V Vout 600V models: Input-Output(Hazardous): 3490VDC 1min, Input-communication/control (SELV): 4242VDC 1min, Hazardous. Output-communication/control(SELV): 4242VDC 1min, Output(Hazardous)-Ground: 2738VDC 1min, Input-Ground: 2828VDC 1min.
4.Insulation resistance	More than 100Mohm at 25°C , 70% RH.

2.6 MECHANICAL CONSTRUCTION	
1. Cooling	Forced air flow: from front to rear. No ventilation holes at the top or bottom of the chassis; Variable fan speed.
2. Dimensions (WxHxD)	W: 214.0mm, H: 43.6mm, (57.0mm Benchtop version), D: 437.5mm (excluding connectors, encoders, handles, etc.)
3. Weight	7Kg (15 Lbs)
4. AC Input connector	IEC320 AC Inlet.
5. Output connectors	6V to 60V models: Bus-bars (hole Ø 6.5mm). 80V to 600V models: Meating plug, Phoenix P/N: GIC 2.5/4-ST-7.62.

2.7 RELIABILITY SPECS	
1. Warranty	5 years.

Also available, Genesys™

1U full Rack 750W/1500W/2400W

2U full Rack 3300W/5000W



Genesys™ Power Benchtop Parallel and Series Configurations

Parallel operation - Master/Slave:



Active current sharing allows up to four identical units to be connected in an auto-parallel configuration for four times the output power.

In Advanced Parallel Master/Slave Mode, total current is programmed and reported by the Master, Up to four supplies act as one.

Series operation



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

Remote Programming via RS-232 & RS-485 Interface



Standard Serial Interface allows chain control of up to 31 power supplies on the same bus with built-in RS-232 & RS-485 Interface.



Programming Options (Factory installed)

Digital Programming via IEEE Multi-Drop Interface — P/N: IEEE

- Allows IEEE Master to control up to 30 slaves over RS-485 daisy-chain
- Only the Master needs be equipped with IEEE Interface
- IEEE 488.2 SCPI Compliant
- Program Voltage
- Measure Voltage
- Over Voltage setting and shutdown
- Error and Status Messages
- Program Current
- Measure Current
- Current Foldback shutdown

Isolated Analog Programming

Four Channels to Program and Monitor Voltage and Current.
Isolation allows operation with floating references in harsh electrical environments.
Choose between programming with Voltage or Current.
Connection via removable terminal block: Phoenix MC1,5/8-ST-3.81.

- Voltage Programming, user-selectable 0-5V or 0-10V signal. **P/N: IS510**
  Power supply Voltage and Current Programming Accuracy ±1%
  Power supply Voltage and Current Monitoring Accuracy ±1.5%
- Current Programming with 4-20mA signal. **P/N: IS420**
  Power supply Voltage and Current Programming Accuracy ±1%
  Power supply Voltage and Current Monitoring Accuracy ±1.5%

LAN Interface — LXI Compliant to Class C — P/N: LAN

- Meets all LXI-C Requirements
- Address Viewable on Front Panel
- Fixed and Dynamic Addressing
- Compatible with most standard Networks
- VISA & SCPI Compatible
- LAN Fault Indicators
- Auto-detects LAN Cross-over Cable
- Fast Startup

Accessories

Rack Mounting applications P/N:GENH/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 GENH750W unit or two units side-by-side in a standard 19" rack in 1U(1.75") height, use option kit **P/N:GENH/RM**

Single unit installation

Single GENH750W power supply in a standard 19" rack in 1U(1.75") height,



Dual unit installation

Two GENH750W power supplies side-by-side in a standard 19" rack in 1U (1.75") height,



Benchtop applications P/N:GENH/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 GENH750W two units or three units one on top of the other use option kit **P/N:GENH/MO**



Communication cable

RS-232/RS-485 Cable is used to connect the power supply to the PC Controller.

Mode	RS-485	RS-232	RS-232
PC Connector Communication Cable Power Supply Connector	DB-9F Shield Ground L=2m EIA/TIA-568A (RJ-45)	DB-9F Shield Ground L=2m EIA/TIA-568A (RJ-45)	DB-25F FShield Ground L=2m EIA/TIA-568A (RJ-45)
P/N	GEN/485-9	GEN/232-9	GEN/232-25

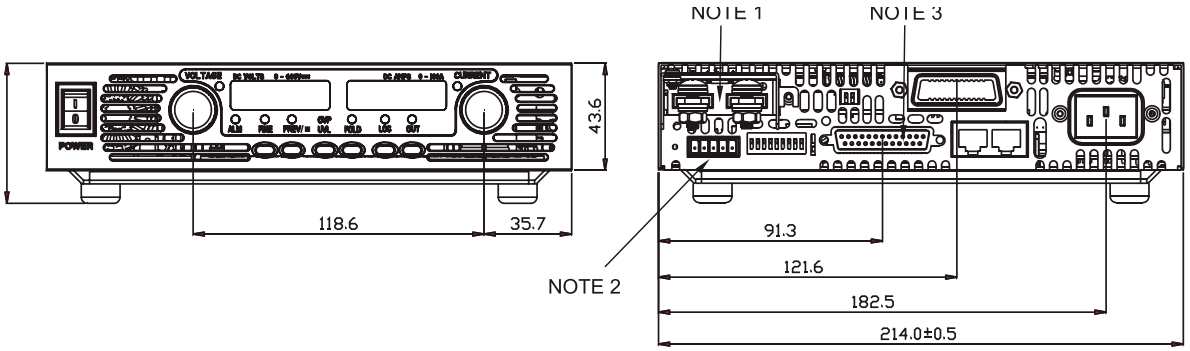
Serial link cable*

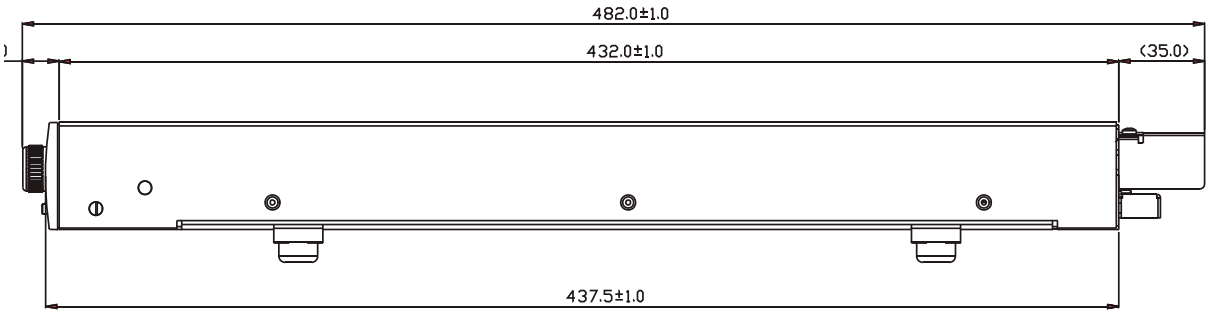
Daisy-chain up to 31 Genesys™ power supplies.

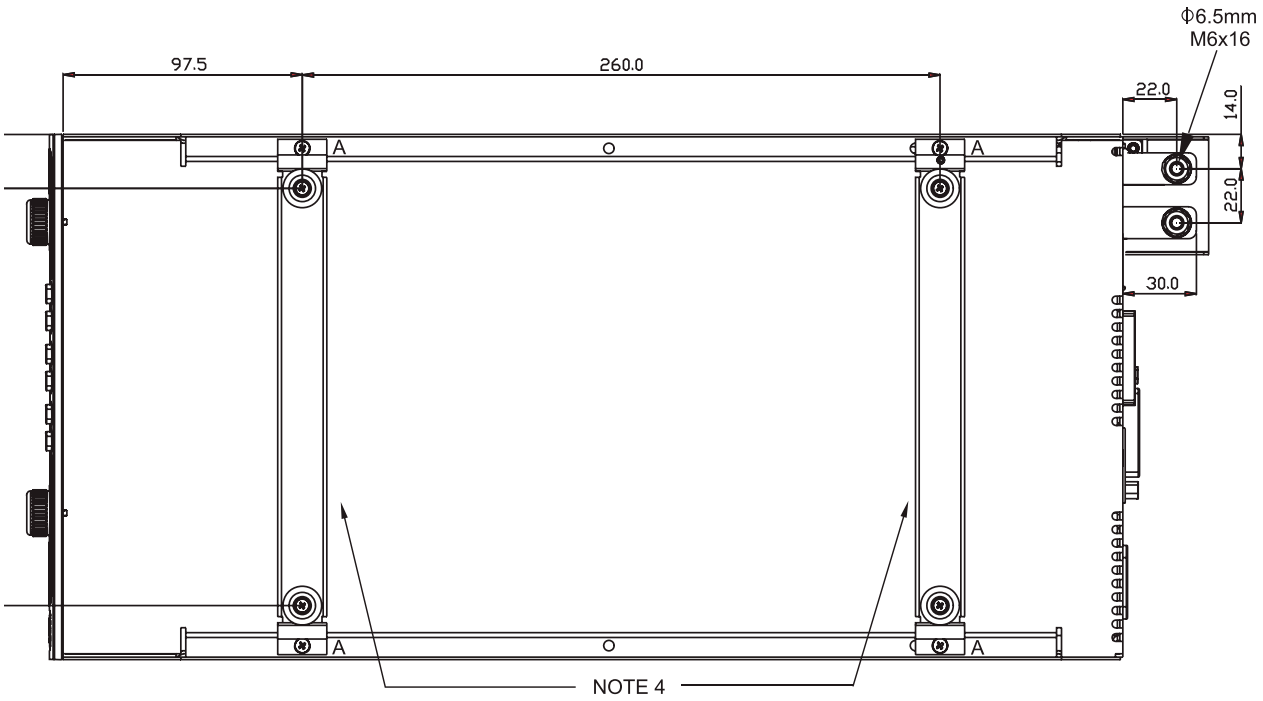
Mode	Power Supply Connector	Communication Cable	P/N
RS-485	EIA/TIA-568A (RJ-45)	Shield Ground L=50cm	GEN/RJ45

* Included with power supply

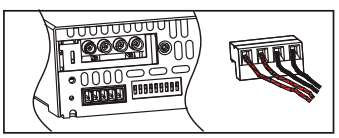
Outline Drawings Genesys™ GENH 750W







NOTE 1



GENH Models 80V to 600V.

NOTES:

1. Bus-bars 6V-60V models
   Connector 80V to 600V model
   Header Phoenix P/N: GIC 2.5/4-G-7.62
2. Mating plug Phoenix P/N: GIC 2.5/4-ST-7.62.
3. Mating plug Phoenix P/N: MC 1.5/5-ST-3.81.
   Mating plug AMP P/N: 745211-2.
4. Benchtop assembly x 2 (removable)
   Screws: 4 x M3x8 marked "A"
   Supplies with the power supply.

Power Supply Identification / Accessories

How to order

GENH	60	-	12.5	-		-	
Series Name	Output Voltage (0~60V)		Output Current (0~12.5A)		Factory Options		AC Cable option
					Option:	IEEE IS510 IS420 LAN	Region: E - Europe GB - United Kingdom J - Japan I - Middle East U - North America

Models GENH750W

Model	Output Voltage VDC	Output Current (A)	Output Power (W)
GENH6-100	0~6V	0~100	600
GENH8-90	0~8V	0~90	720
GENH12.5-60	0~12.5V	0~60	750
GENH20-38	0~20V	0~38	760
GENH30-25	0~30V	0~25	750
GENH40-19	0~40V	0~19	760
GENH60-12.5	0~60V	0~12.5	750
GENH80-9.5	0~80V	0~9.5	760
GENH100-7.5	0~100V	0~7.5	750
GENH150-5	0~150V	0~5	750
GENH300-2.5	0~300V	0~2.5	750
GENH600-1.3	0~600	0~1.3	780

Factory option

	P/N
RS-232/RS-485 Interface built-in Standard	-
GPIB Interface	IEEE
Voltage Programming Isolated Analog Interface	IS510
Current Programming Isolated Analog Interface	IS420
LAN Interface (Complies with LXI Class C)	LAN

Region	Europe	United Kingdom	Japan	Middle East	North America
Output Power AC Cords Wall Plug Power Supply Connector	750W 10A/250Vac L=2m INT'L 7/VII IEC320-C13	750W 10A/250Vac L=2m BS1363 IEC320-C13	750W 13A/125Vac L=2m IEC320-C13	750W 10A/250Vac L=2m SI-32 IEC320-C13	750W 13A/125Vac L=2m NEMA 5-15P IEC320-C13
Part Number	P/N: GEN/E	P/N: GEN/GB	P/N: GEN/J	P/N: GEN/I	P/N : GEN/U

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