

# Genesis™

**GENH Series**  
**Programmable DC Power Supplies**  
**750W in a 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**



**TDK-Lambda**

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

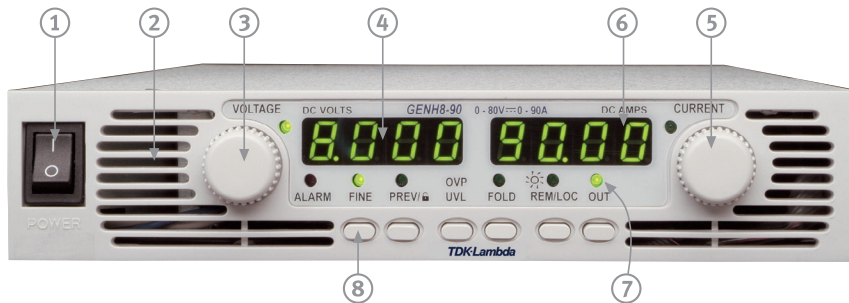
**Features include:**

- 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

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 have been designed to meet the demands of a wide variety of applications.

### 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 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.

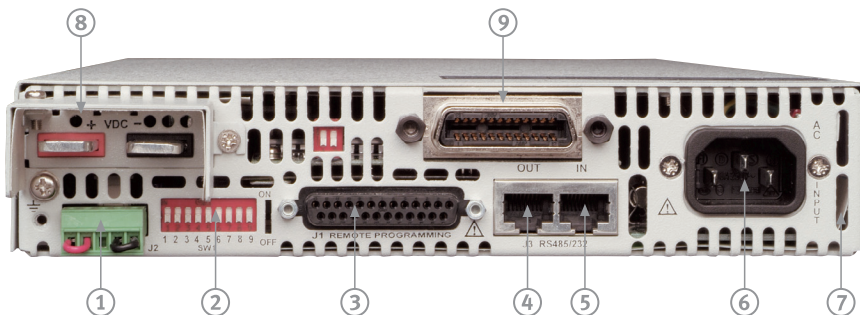
Remote analog programming is user selectable 0-5V or 0-10V.

### 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

| 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 | 78/81 | 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   | 60  | 60  | 60  | 60  | 60   | 60                               | 80   | 80   | 100  | 150  | 300  |     |     |
| 4. Ripple r.m.s 5Hz~1MHz (*9)                  | mV     | 8  | 8   | 8   | 8   | 8   | 8    | 8                                | 8    | 8    | 10   | 25   | 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 | 100PPM/°C of rated output voltage, following 30 minutes warm up                  |     |     |     |     |      |                                  |      |      |      |      |      |     |     |
| 7. Up-prog. response time, 0~Vo Rated          | mS     | 80mS, N.L./F.L., resistive load  |     |     |     |     |      | 150mS, N.L./F.L., resistive load |      |      |      |      |      | 250 |     |
| 8. Down-prog response time full-load           | mS     | 10   | 50  |     |     |     | 80   |                                  |      |      | 150  |      |      |     | 250 |
| 9. Down-prog response time no-load             | mS     | 500  | 600 | 700 | 800 | 900 | 1000 | 1100                             | 1200 | 1500 | 2000 | 2500 | 4000 |     |     |
| 10. Transient response time (*8)               |        | Less than 1mSec for models up to and including 100V. 2msec for models above 100V |     |     |     |     |      |                                  |      |      |      |      |      |     |     |

## 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     | 200   | 180 | 120 | 76   | 63  | 48  | 38   | 29   | 23   | 18  | 13   | 8    |
| 4. Temp. coefficient                           | PPM/°C | 100PPM/°C from rated output current, following 30 minutes warm up |     |     |      |     |     |      |      |      |     |      |      |

## 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=OK, 0V=Fail 500ohm impedance   |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 analog, 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)<br>OVP/UVL manual adjust by Volt. Adjust encoder<br>AC on/off, Output on/off, Re-start modes (auto, safe), Foldback control (CV to CC), Go to local control<br>Front Panel Lock<br>Address selection by Voltage (or current) adjust encoder. Number of addresses: 31<br>RS232/485 and IEEE488.2 selection by IEEE enable switch and DIP switch<br>Baudrate selection: 1200, 2400, 4800, 9600 and 19,200 |  |  |  |  |  |  |  |  |  |  |  |  |
| 2. Display           | Voltage 4 digits, accuracy: 0.5% +/-1 count<br>Current 4 digits, accuracy: 0.5% +/-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  |
|--|----|------|------|------|------|------|------|------|------|------|------|------|------|
| <b>1. Remote Voltage Programming (16 bit)</b>        |    |      |      |      |      |      |      |      |      |      |      |      |      |
| Resolution (0.012% of Vo Rated)                      | mV | 0.72 | 0.96 | 1.50 | 2.40 | 3.60 | 4.80 | 7.2  | 9.6  | 12   | 18   | 36   | 72   |
| Accuracy (0.05%Vo Rated+0.05% of Vo Actual Output)   | mV | 6.0  | 8.0  | 12.5 | 20   | 30   | 40   | 60   | 80   | 100  | 150  | 300  | 600  |
| <b>2. Remote Current Programming (16 bit)</b>        |    |      |      |      |      |      |      |      |      |      |      |      |      |
| Resolution (0.012% of Io Rated)                      | mA | 12   | 10.8 | 7.2  | 4.56 | 3.0  | 2.28 | 1.50 | 1.14 | 0.90 | 0.60 | 0.30 | 0.16 |
| Accuracy (0.1% of Io Rated+0.1% of Io Actual Output) | mA | 200  | 180  | 120  | 76   | 50   | 38   | 25   | 19   | 15   | 10   | 5.0  | 2.6  |
| <b>3. Readback Voltage</b>                           |    |      |      |      |      |      |      |      |      |      |      |      |      |
| Resolution (0.012% of Vo Rated)                      | mV | 0.72 | 0.96 | 1.50 | 2.40 | 3.60 | 4.80 | 7.2  | 9.6  | 12   | 18   | 36   | 72   |
| Accuracy (0.1%Vo Rated+0.1% of Vo Actual Output)     | mV | 12   | 16   | 25   | 40   | 60   | 80   | 120  | 160  | 200  | 300  | 600  | 1200 |
| <b>4. Readback Current</b>                           |    |      |      |      |      |      |      |      |      |      |      |      |      |
| Resolution (0.012% of Io Rated)                      | mA | 12   | 10.8 | 7.2  | 4.56 | 3.0  | 2.28 | 1.50 | 1.14 | 0.90 | 0.60 | 0.30 | 0.16 |
| Accuracy (0.3% of Io Rated+0.1% of Io Actual Output) | mA | 400  | 360  | 240  | 152  | 100  | 76   | 50   | 38   | 30   | 20   | 10   | 5.2  |
| <b>5. OVP/UVL Programming</b>                        |    |      |      |      |      |      |      |      |      |      |      |      |      |
| 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 current, 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



## 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  | 10.5A / 5A,  |
| 5. Inrush current 100/200Vac | 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: | CE Mark, UL60950,EN60950 listed. Vout<60V:Output is SELV , IEEEE/Isolated analog are SELV.<br>60<Vout<400V: Output is hazardous, IEEEE/Isolated analog are SELV.<br>400<Vout<600V:Output is hazardous, IEEEE/Isolated analog are not SELV.   |
| 2. Withstand voltage     | Vout<60V models :Input-Outputs (SELV): 3.0KVrms 1min, Input-Ground: 2.0KVrms 1min.<br>60<Vout<600V models: Input-Haz. Output: 2.5KVrms 1min, Input-SELV: 3KVrms 1min.<br>Hazardous Output.-SELV: 1.9KVrms 1min, Hazardous Output-Ground:1.9KVrms 1min.<br>Input-Ground: 2KVrms 1min. |
| 3. Insulation resistance | More than 100Mohm at 25°C , 70% RH, 500Vdc   |

## 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             | 4.5Kg (9.9 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. |
|-------------|----------|

\*1: For cases where conformance to various safety standards (UL, IEC etc.) is required, to be described as 100-240Vac (50/60Hz).  
All specifications subject to change without notice.

**Also available, Genesys™**  
**1U full Rack 750W/1500W/2400W**  
**2U full Rack 3300W/5000W**



# Genesys™ Power Benchtop Parallel and Series Configurations

## Benchtop Power Supply

### 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.

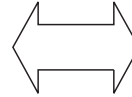
### Series operation

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 Interface

P/N: IEEE

- IEEE 488.2 SCPI Compliant
- Program Voltage
- Measure Voltage
- Over Voltage setting and shutdown
- Error and Status Messages
- **New! Multi-Drop**
  - Allows IEEE Master to control up to 31 slaves over RS-485 daisy-chain
  - Only the Master needs be equipped with IEEE Interface
- 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  $\pm 1\%$
  - Power supply Voltage and Current Monitoring Accuracy  $\pm 1.5\%$
- Current Programming with 4-20mA signal. P/N: IS420
  - Power supply Voltage and Current Programming Accuracy  $\pm 1\%$
  - Power supply Voltage and Current Monitoring Accuracy  $\pm 1.5\%$

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

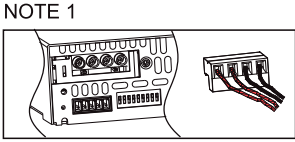
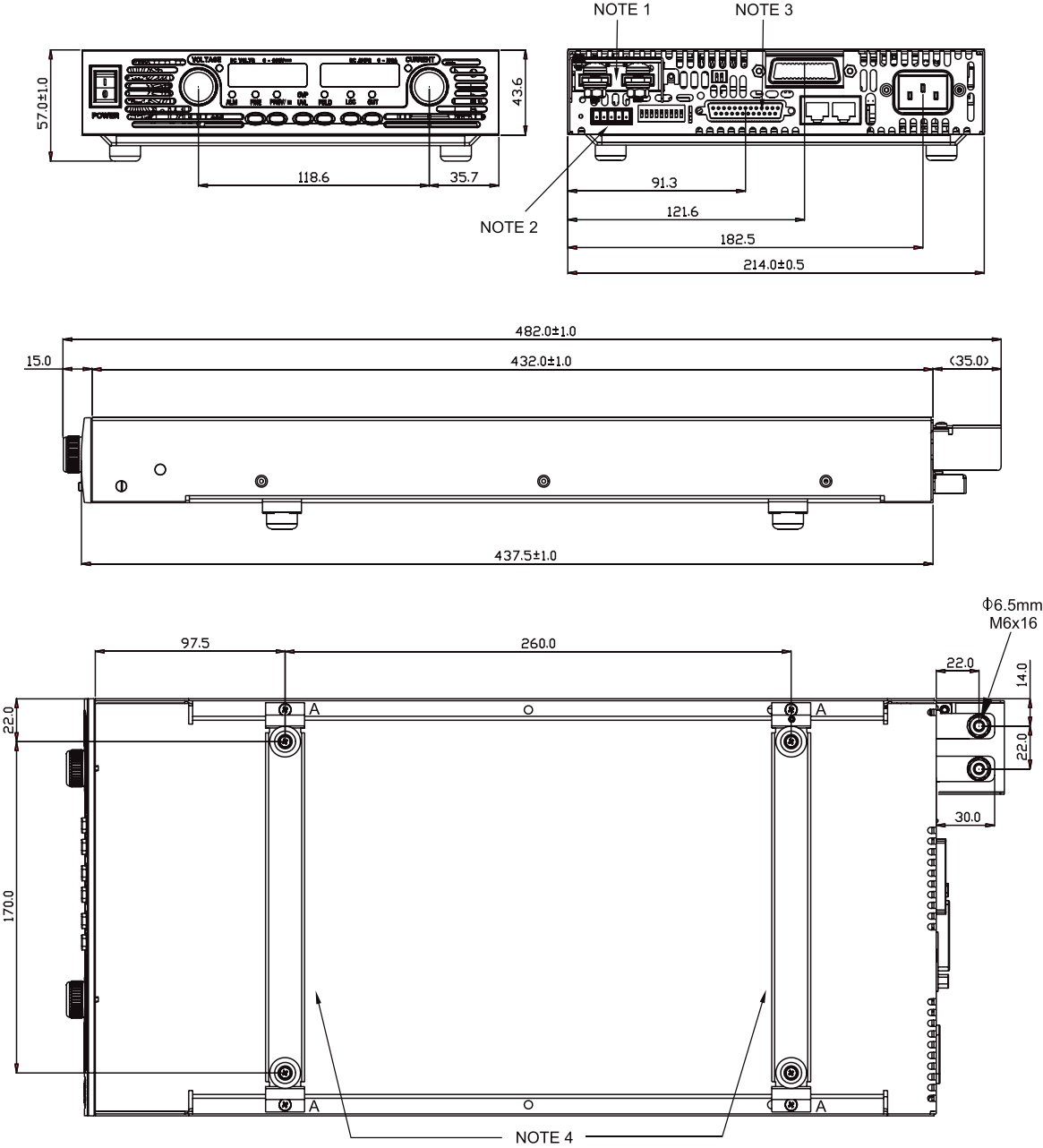
### Serial link cable\*

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



GENH Models 80V to 600V.

- NOTES:
1. Bus-bars 6V to 60V models  
Connector 80V to 600V model  
Header Phoenix P/N: GIC 2.5/4-G-7.62  
Mating plug Phoenix P/N: GIC 2.5/4-ST-7.62
  2. Mating plug Phoenix P/N: MC1.5/5-ST-3.81
  3. Mating plug AMP P/N: 745211-2  
Mating plugs supplied with power supply.
  4. Benchtop assembly x 2 (removable)  
Screws: 4 x M3x8 marked "A".  
Supplied with the power supply.



## Power Supply Identification / Accessories

### How to order

|             |                        |                          |  |   |  |   |  |
|-------------|------------------------|--------------------------|--|---|--|---|--|
| <b>GENH</b> | <b>60</b>              | -                        | <b>12.5</b>  | -   |  | - |  |
| Series Name | Output Voltage (0~60V) | Output Current (0~12.5A) | Factory Options<br>Option: IEEE<br>IS510<br>IS420<br>LAN | AC Cable option<br>Region: E - Europe<br>GB - United Kingdom<br>J - Japan<br>I - Middle East<br>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 | 0~600V             | 0~1.3              | 780              |






#### Factory option

RS-232/RS-485 Interface built-in Standard  
 GPIB Interface  
 Voltage Programming Isolated Analog Interface  
 Current Programming Isolated Analog Interface  
 LAN Interface (Complies with **LXI** Class C)

#### P/N

-  
 IEEE  
 IS510  
 IS420  
 LAN

### AC Cords sets

| Region                 | Europe  | United Kingdom  | Japan   | Middle East   | North America   |
|------------------------|---|---|---|---|---|
| Output Power           | 750W  | 750W  | 750W  | 750W  | 750W  |
| AC Cords               | 10A/250Vac L=2m   | 10A/250Vac L=2m   | 13A/125Vac L=2m   | 10A/250Vac L=2m   | 13A/125Vac L=2m   |
| Wall Plug              | INT'L 7/VII   | BS1363  |   | SI-32   | NEMA 5-15P  |
| Power Supply Connector | IEC320-C13<br> | IEC320-C13<br> | IEC320-C13<br> | IEC320-C13<br> | IEC320-C13<br> |
| 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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