

New From TDK-Lambda - the **ONLY** 5kW in 2U!

Genesys™

**Programmable DC Power Supplies
5kW in 2U**

**Built in RS-232 & RS-485 Interface
Advanced Parallel Standard**

**Optional Interfaces:
IEEE488.2 SCPI (GPIB)
Isolated Analog Programming
LXI Compliant LAN**



Genesys™ Family

GEN H 750W Half Rack

GEN 1U 750/1500W Full Rack

GEN 2U 3.3/5kW

GEN 3U 10/15kW

TDK-Lambda

www.us.tdk-lambda.com/hp

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 5kW in 2U**
- **Wide Range of popular worldwide AC inputs, 3Ø (208VAC, 400VAC)**
- **Active Power Factor Correction (Three-Phase AC Input)**
- **Output Voltage up to 600V, Current up to 600A**
- **Built-in RS-232/RS-485 Interface Standard**
- **Global Commands for Serial RS-232/RS-485 Interface**
- **Auto-Re-Start / Safe-Start: user selectable**
- **Last-Setting Memory**
- High Resolution 16 bit ADCs & DACs
- Low Ripple & Noise
- Front Panel Lock selectable from Front Panel or Software
- Reliable Encoders for Voltage and Current Adjustment
- Constant Voltage/Constant Current auto-crossover
- Parallel Operation with Active Current Sharing; up to four identical units.
- Advanced Parallel Master / Slave. Total Current is Programmed and Measured via the Master.
- Independent Remote ON/OFF and Remote Enable/Disable
- External Analog Programming and Monitoring (user selectable 0-5V & 0-10V)
- Reliable Modular and SMT Design
- 19" Rack Mount capability for ATE and OEM applications
- Optional Interfaces
 - Isolated Analog Programming and Monitoring Interface (0-5V/0-10V & 4-20mA)
 - IEEE 488.2 SCPI (GPIB) Multi-Drop
 - LXI** Compliant LAN
 - USB Interface
- LabView and LabWindow™ drivers
- Five Year Warranty

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



Applications

Genesys™ power supplies have been designed to meet the demands of a wide variety of applications. System Designers will appreciate new, standard, remote programming features such as Global commands. Also, new high-speed status monitoring is available for the RS-485 bus.

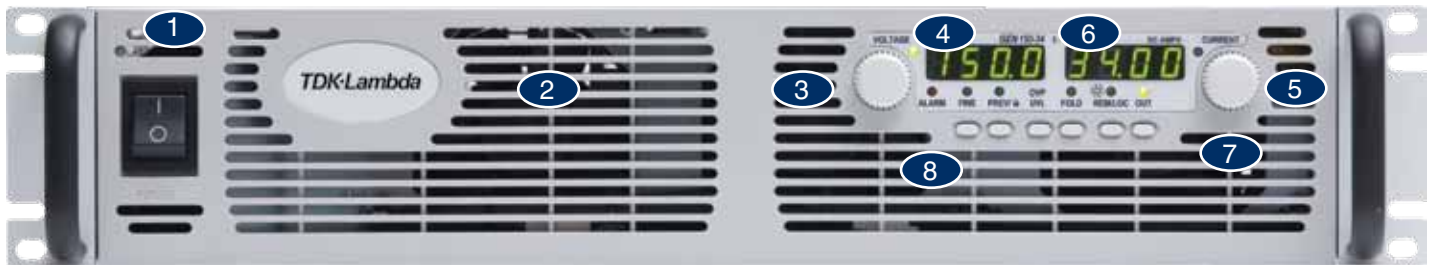
Test Systems using the IEEE-488 bus may achieve significant cost savings by incorporating the Optional IEEE Multi-Drop Interface for a Master and up to 30 RS-485 Multi-Drop Slaves. Then up to 30 Slaves may be equipped with the less expensive Optional RS-485 Multi-Drop (MD) interface.

Higher power systems can be configured with up to four 5kW modules. Each module is 2U with zero space between them (zero stack).

Flexible configuration is provided by the complete Genesys™ Family: 1U 750W Half-Rack, 1U 750W/1500W 2U 3.3kW/5kW Full-Rack. All are identical in Front Panel, Rear Panel Analog, and all Digital Interface Commands.

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

Front Panel Description



1. ON/OFF Switch
2. Air Intake allows zero stacking for maximum system flexibility and power density.
3. Reliable encoder controls Output Voltage, Address, OVP and UVL settings.
4. Volt Display shows Output Voltage and directly displays OVP, UVL and Address settings.
5. Reliable encoder controls Output Current, sets Baud rate and Advanced Parallel mode.
6. Current Display shows Output Current and displays Baud rate. Displays total current in Parallel Master/Slave Mode
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 Lock
 - Parallel Master/Slave
 - Set OVP and UVL Limits
 - Set Current Foldback Protection
 - Go to Local Mode and select Address and Baud rate
 - Output ON/OFF and Auto/Safe Re-Start 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. Output Connections: Rugged busbars (shown) for up to 100V Output; wire clamp connector for Outputs >100V.
7. Exit air assures reliable operation when zero stacked.
8. Input: 208 & 400VAC Three Phase, 50/60 Hz
AC Input Connector: PHOENIX CONTACT Power Combicon PC 6/... Series with strain relief.
9. Optional Interface Position for IEEE 488.2 SCPI (shown) or Isolated Analog, LAN or USB Interface.

Genesys™ 5kW Specifications

| 1.0 MODEL | GEN | 8-600 | 10-500 | 16-310 | 20-250 | 30-170 | 40-125 | 60-85 | 80-65 | 100-50 | 150-34 | 300-17 | 600-8.5 |
|----------------------------|-----|-------|--------|--------|--------|--------|--------|-------|-------|--------|--------|--------|---------|
| 1.Rated Output voltage(*1) | V | 8 | 10 | 16 | 20 | 30 | 40 | 60 | 80 | 100 | 150 | 300 | 600 |
| 2.Rated Output Current(*2) | A | 600 | 500 | 310 | 250 | 170 | 125 | 85 | 65 | 50 | 34 | 17 | 8.5 |
| 3.Rated Output Power | W | 4800 | 5000 | 4960 | 5000 | 5100 | 5000 | 5100 | 5200 | 5000 | 5100 | 5100 | 5100 |

1.1 CONSTANT VOLTAGE MODE

| | | | | | | | | | | | | | | |
|--|----------------|---|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|
| 1.Max.line regulation (0.01% of rated Vo)(*6) | mV | 0.8 | 1 | 1.6 | 2 | 3 | 4 | 6 | 8 | 10 | 15 | 30 | 60 | |
| 2.Max load regulation (0.015% of rated Vo+5mV)(*7) | mV | 6.2 | 6.5 | 7.4 | 8 | 9.5 | 11 | 14 | 17 | 20 | 27.5 | 50 | 95 | |
| 3.Ripple and noise p-p 20MHz (*8) | mV | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 80 | 100 | 120 | 200 | 500 | |
| 4.Ripple r.m.s 5Hz~1MHz | mV | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 12 | 15 | 25 | 35 | 120 | |
| 5.Remote sense compensation/wire | V | 2 | 2 | 2 | 2 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | |
| 6.Temperature coefficient | PPM/°C | 100PPM/°C of rated output voltage, following 30 minutes warm-up | | | | | | | | | | | | |
| 7.Temperature stability | | 0.05% of rated Vout over 8hrs interval following 30 minutes warm-up. Constant line, load & temp. | | | | | | | | | | | | |
| 8.Warm-up drift | | Less than 0.05% of rated output voltage+2mV over 30 minutes following power On. | | | | | | | | | | | | |
| 9.Up-prog. response time, 0~Vo Rated (*9) | mS | 30 | | | | | | | | | | 50 | | 100 |
| 10.Down-prog response time | Full-load (*9) | mS | 15 | 50 | | | 80 | | | 100 | | | 200 | |
| | No-load (*10) | mS | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1200 | 1500 | 2000 | 2500 | 3000 |
| 11.Transient response time | mS | Time for output voltage to recover within 0.5% of its rated output for a load change 10-90% of rated output current. Output set-point: 10-100%, local sense. Less than 1mSec for models up to and including 100V. 2msec for models above 100V | | | | | | | | | | | | |

1.2 CONSTANT CURRENT MODE

| | | | | | | | | | | | | | |
|---|--------|---|------|------|------|-----|------|------|------|-----|----|-----|------|
| 1.Max.line regulation (0.05% of Io rated)(*6) | mA | 300 | 250 | 155 | 125 | 85 | 62.5 | 42.5 | 32.5 | 25 | 17 | 8.5 | 4.25 |
| 2.Max.load regulation (0.1% of Io rated)(*11) | mA | 600 | 500 | 310 | 250 | 170 | 125 | 58 | 65 | 50 | 34 | 17 | 8.5 |
| 3.Ripple r.m.s 5Hz~1MHz. (*12) | mA | 1950 | 1800 | 1400 | 1000 | 460 | 300 | 150 | 120 | 100 | 90 | 30 | 15 |
| 4.Temperature coefficient | PPM/°C | 100PPM/°C from rated output current, following 30 minutes warm-up. | | | | | | | | | | | |
| 5.Temperature stability | | 0.05% of rated Iout over 8hrs. interval following 30minutes warm-up. Constant line, load & temperature. | | | | | | | | | | | |
| 6.Warm-up drift | | 8V~16V models: Less than ±0.5% of rated output current over 30 minutes following power On. 20V~600V models: Less than ±0.25% of rated output current over 30 minutes following power On. | | | | | | | | | | | |

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 OUI button or by communication port command. |
| 4. OVP trip point | 0.5~10V 0.5~12V 1~19V 1~24V 2~36V 2~44.1V 5~66.15V 5~88.2V 5~110.25V 5~165.3V 5~330.7V 5~661.5V |
| 5. Over Temperature Protection | User selectable , latched or non-latched. |
| 6. Output Under Voltage Limit | Preset by front panel or communication port. Prevents from adjusting Vout below limit. |

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 (*13) | 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 (*13) | 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 (*13) | 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, 4~5V or open: Local. |
| 12. Local/Remote analog control Indicator | Open collector, Local: Off, Remote: On. Maximum voltage: 30V, maximum sink current: 10mA. |

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. 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. Re-start modes (automatic restart, safe mode). Baud rate selection: 1200,2400,4800,9600 and 19,200. |
| 2.Display | Voltage: 4 digits , Accuracy: 0.5% of rated output Voltage ±1 count. Current: 4 digits, Accuracy: 0.5% of rated output current ±1 count. |
| 3.Indications | Voltage, Current, Alarm, Fine, Preview, Foldback, Local, Output On, Front Panel Lock, CV/CC. |

1.6 Interface RS-232&RS-485 or Optional GPIB / LAN Interface

| Model | V | 8 | 10 | 16 | 20 | 30 | 40 | 60 | 80 | 100 | 150 | 300 | 600 |
|---|----|------|------|------|------|------|-----|------|-----|------|------|------|------|
| 1. Remote Voltage Programming (16 bit) | | | | | | | | | | | | | |
| Resolution (0.012% of Vo Rated) | mV | 0.96 | 1.2 | 1.92 | 2.4 | 3.6 | 4.8 | 7.2 | 9.6 | 12 | 18 | 36 | 72 |
| Accuracy (0.1% of Vo Rated) | mV | 8 | 10 | 16 | 20 | 30 | 40 | 60 | 80 | 100 | 150 | 300 | 600 |
| 2. Remote Current Programming (16 bit) | | | | | | | | | | | | | |
| Resolution (0.012% of Io Rated) | mA | 72 | 60 | 37.2 | 30 | 20.4 | 15 | 10.2 | 7.8 | 6 | 4.08 | 2.04 | 1.02 |
| Accuracy(0.3%of IoRated+0.1% of IoActual Output)*13 | mA | 2400 | 2000 | 1240 | 1000 | 680 | 500 | 340 | 260 | 200 | 136 | 68 | 34 |
| 3. Readback Voltage | | | | | | | | | | | | | |
| Resolution (0.012% of Vo Rated) | mV | 0.96 | 1.2 | 1.92 | 2.4 | 3.6 | 4.8 | 7.2 | 9.6 | 12 | 18 | 36 | 72 |
| Accuracy (0.15% of Vo Rated) | mV | 12 | 15 | 24 | 30 | 45 | 60 | 90 | 120 | 150 | 225 | 450 | 900 |
| 4. Readback Current | | | | | | | | | | | | | |
| Resolution (0.012% of Io Rated) | mA | 72 | 60 | 37.2 | 30 | 20.4 | 15 | 10.2 | 7.8 | 6 | 4.08 | 2.04 | 1.02 |
| Accuracy (0.4% of Io Rated)(*13) | mA | 2400 | 2000 | 1240 | 1000 | 680 | 500 | 340 | 260 | 200 | 136 | 68 | 34 |
| 5. OVP/UVL Programming | | | | | | | | | | | | | |
| Resolution (0.1% of Vo Rated) | mV | 8 | 10 | 16 | 20 | 30 | 40 | 60 | 80 | 100 | 150 | 300 | 600 |
| Accuracy (1% of Vo Rated) | mV | 80 | 100 | 160 | 200 | 300 | 400 | 600 | 800 | 1000 | 1500 | 3000 | 6000 |

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

*2: Minimum current is guaranteed to maximum 0.4% of rated output current.

*3: For cases where conformance to various safety standards (UL, IEC, etc) is required, to be described as 190-240Vac (50/60Hz) for 3-Phase 208V models, and 380~415Vac (50/60Hz) for 3-Phase 400V models.

*4: 3-Phase 208V models: At 208Vac input voltage, 3-Phase 400V: At 380Vac input voltage. With rated output power.

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

*6: 3-Phase 208V models: 170~265Vac, constant load. 3-Phase 400V models: 342~460Vac, constant load.

*7: From No-Load to Full-Load, constant input voltage. Maximum drop in Remote Sense.

*8: For 8V~300V models: Measured with JEITA RC-9131A (1:1) probe. For 600V model: Measured with 10:1 probe.

*9: From 10% to 90% or 90% to 10% of Rated Output Voltage, with rated, resistive load.

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

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

*12: For 8V~16V models the ripple is measured from 2V to 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.

*13: The Constant Current programming readback and monitoring accuracy does not include the warm-up and Load regulation thermal drift.

Genesys™ 5kW Specifications

| 2.1 INPUT CHARACTERISTICS | | GEN | 8-600 | 10-500 | 16-310 | 20-250 | 30-170 | 40-125 | 60-85 | 80-65 | 100-50 | 150-34 | 300-17 | 600-8.5 |
|---------------------------------------|-----------------------|------|---|--------|--------|--------|--------|--------|-------|-------|--------|--------|--------|---------|
| 1. Input voltage/freq. (*3) | | VAC | 3-Phase, 208Vac models: 170-265Vrms, 47-63Hz 3-Phase, 400V models: 342-460Vac, 47-63Hz | | | | | | | | | | | |
| 2. Maximum Input current at 100% load | 3-Phase, 208V models: | Arms | 20.7 | 21.5 | 21.4 | 21 | 21.5 | 20.6 | 20.5 | 21.4 | 20.6 | 21 | 21 | 21 |
| | 3-Phase, 400V models: | | 10.3 | 10.7 | 10.6 | 10.5 | 10.2 | 10.2 | 10.2 | 10.6 | 10.2 | 10.4 | 10.4 | 10.4 |
| 3. Power Factor (Typ) | | | 0.94 at 100% load and 208V/380V/400V/415V | | | | | | | | | | | |
| 4. Inrush Current | | A | 3-Phase 200V: 50A, 3-Phase 400V: 20A. Not including the EMI filter inrush current, less than 0.2mSec. | | | | | | | | | | | |
| 5. Efficiency at 200V and 380V | | % | 84 | 84 | 84 | 86 | 86 | 88 | 90 | 88 | 88 | 88 | 88 | 88 |
| 6. Efficiency at 170V and 342V | | % | 84 | 84 | 84 | 86 | 86 | 88 | 90 | 88 | 88 | 88 | 88 | 88 |
| 7. Hold up time (CV Mode) | | mS | 5mS typical | | | | | | | | | | | |
| 8. Phase Imbalance | | % | ≤5% | | | | | | | | | | | |
| 9. Leakage Current | | mA | less than 3mA | | | | | | | | | | | |

| 2.2 POWER SUPPLY CONFIGURATION | |
|--------------------------------|--|
| 1. Parallel Operation | Up to Four (4) identical units may be connected in Master/Slave Mode with two wire connection. In Advanced parallel feature, the current of Master Unit, multiplied by number of units connected in parallel, is made available on digital interface and displayed on front panel of Master unit. Remote analog current monitor of the Master is scaled to output current of the Master unit (only). |
| 2. Series Operation | Possible (with external diodes), up to identical 2 units with total output not to exceed +/-600V from chassis ground. |

| 2.3 ENVIRONMENTAL CONDITIONS | |
|------------------------------|---|
| 1. Operating temp | 0-50°C, 100% load. |
| 2. Storage temp | -20-85°C |
| 3. Operating humidity | 20-90% RH (non-condensing). |
| 4. Storage humidity | 10-95% RH (non-condensing). |
| 5. Vibration AND sHOCK | MIL-STD-810F, method 514.5, The EUT is fixed to the vibrating surface. Less than 20G, half sine, 11mSec. Unit is unpacked. ASTM D4169, Standard Practice for Performance Testing of Shipping Containers and Systems, Shipping Unit: Single Package Assurance Level: Level II; Acceptance Criteria: Criterion 1 - No product damage Criterion 2 - Packaging is intact, Distribution Cycle: 12 - Air (intercity) and motor freight (local), unitized is used |
| 6. Altitude | Operating: 10000ft (3000m), Derate output current by 2%/100m above 2000m, Non operating: 40000ft (12000m). |

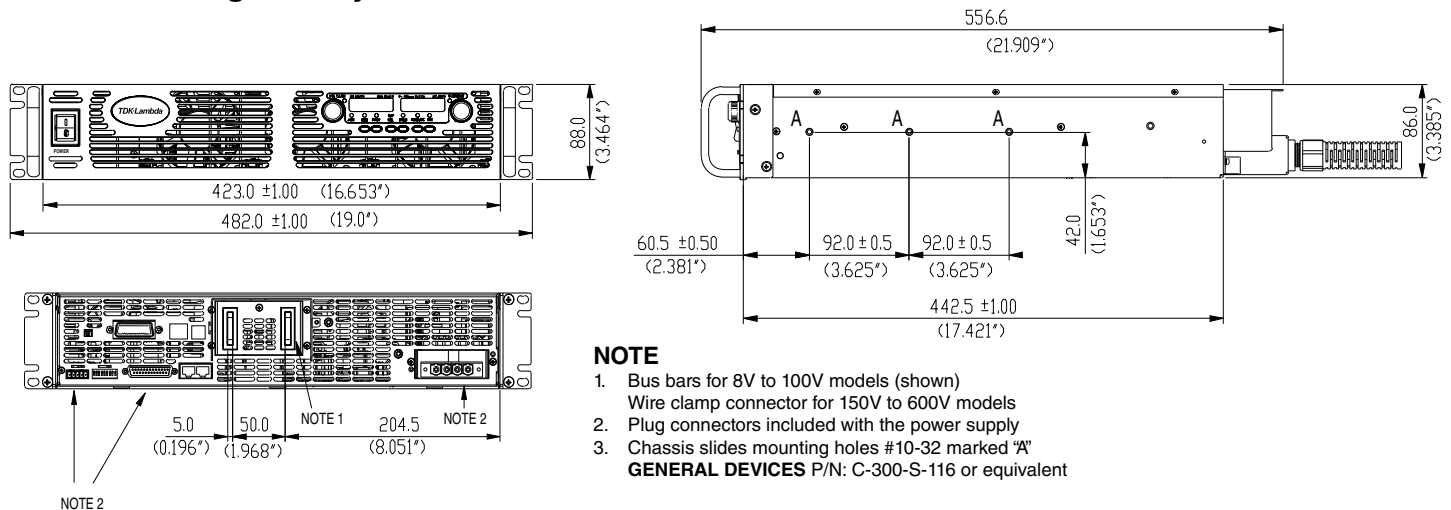
| 2.4 EMC | |
|----------------------------|---|
| 1. Applicable Standards: | |
| 2. ESD | IEC1000-4-2. Air-disch.-8kV, contact disch.-4kV |
| 3. Fast transients | IEC1000-4-4. 2kV |
| 4. Surge immunity | IEC1000-4-5. 1kV line to line, 2kV line to ground |
| 5. Conducted immunity | IEC1000-4-6, 3V |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

| 2.5 SAFETY | |
|--------------------------|---|
| 1. Applicable standards: | CE Mark, UL60950, EN60950 listed. Vout≤40V: Output is SELV, IEEE/Isolated analog are SELV. 40<Vout≤400V: Output is hazardous, IEEE/Isolated analog are SELV. 400<Vout≤600V: Output is hazardous, IEEE/Isolated analog are not SELV. |
| 2. Withstand voltage | Vout≤40V models :Input-Outputs (SELV): 4242VDC 1min, Input-Ground: 2828VDC 1min. 40<Vout≤100V models: Input-Haz. Output: 2600VDC 1min, Input-SELV: 4242VDC 1min. Hazardous Output-SELV: 1900VDC 1min, Hazardous Output-Ground: 1200VDC 1min. Input-Ground: 2828VDC 1min. 100<Vout≤600V models: Input-Haz. Output: 4000VDC 1min, Input-SELV: 4242VDC 1min. Hazardous Output-SELV: 3550VDC 1min. Hazardous Output-Ground: 2670VDC 1min. Input-Ground: 2828VDC 1min. |
| 3. 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: 423mm / 16.65" H: 88mm / 3.46"; D: 442.5mm / 17.42" (excluding connectors, encoders, handles, etc.) |
| 3. Weight | 16 kg. / 35.2lbs |
| 4. AC Input connector (with Protective Cover) | 3-Phase, 208V & 400V models, Power Combicon PC 6-16/4-GF-10, 16 series, with Strain relief. |
| 5. Output connectors | 8V to 100V models: Bus-bars (hole Ø 10.5mm). 150V to 600V models: wire clamp connector, Phoenix P/N: FRONT-4-H-7.62 |

| 2.7 Warranty | |
|--------------|----------|
| 1. Warranty | 5 years. |

Outline Drawing Genesys™ 5kW Units



Genesys™ Power 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.

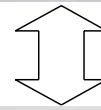
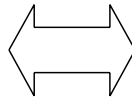
Series operation

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 daisy-chain control of up to 31 power supplies on the same communication bus with built-in RS-232 & RS-485 Interface with or without Multi-Drop option.



Programming Options (Factory installed)

New IEEE Multi-Drop Interface

- Allows IEEE Master to control up to 30 (Multi-Drop equipped) 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

P/N: IEMD

New Multi-Drop Slave Option

- Slaves need to be equipped with the MD Slave (RS-485) option

P/N: MD

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.
 - 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.
 - Power supply Voltage and Current Programming Accuracy $\pm 1\%$
 - Power supply Voltage and Current Monitoring Accuracy $\pm 1.5\%$

P/N: IS510

P/N: IS420

LAN Interface



Compliant to Class C

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

P/N: LAN

USB Interface

- Allows Serial Connection to USB Port on Computer
- Serial commands same as (standard) RS-232/RS-485 Interface

P/N: USB

Power Supply Identification / Accessories

How to order

| | | | | | |
|-------------|-----------------------|-------------------------|-----------------|---------|----------------------------|
| GEN | 8 | - 600 | - | - | - |
| Series Name | Output Voltage (0~8V) | Output Current (0~600A) | Factory Options | Option: | AC Input Options |
| | | | | IEMD | 3P208 (Three Phase 208VAC) |
| | | | | MD | 3P400 (Three Phase 400VAC) |
| | | | | IS510 | |
| | | | | IS420 | |
| | | | | LAN | |
| | | | | USB | |

Models 5kW

| Model | Output Voltage VDC | Output Current (A) | Output Power (W) |
|------------|--------------------|--------------------|------------------|
| GEN 8-600 | 0~8V | 0~600 | 4800 |
| GEN 10-500 | 0~10V | 0~500 | 5000 |
| GEN 16-310 | 0~16V | 0~310 | 4960 |
| GEN 20-250 | 0~20V | 0~250 | 5000 |
| GEN 30-170 | 0~30V | 0~170 | 5100 |
| GEN 40-125 | 0~40V | 0~125 | 5000 |

| Model | Output Voltage VDC | Output Current (A) | Output Power (W) |
|-------------|--------------------|--------------------|------------------|
| GEN 60-85 | 0~60V | 0~85 | 5100 |
| GEN 80-65 | 0~80V | 0~65 | 5200 |
| GEN 100-50 | 0~100V | 0~50 | 5000 |
| GEN 150-34 | 0~150V | 0~34 | 5100 |
| GEN 300-17 | 0~300V | 0~17 | 5100 |
| GEN 600-8.5 | 0~600V | 0~8.5 | 5100 |

Factory options

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

P/N

-
- IEMD
- MD
- IS510
- IS420
- LAN
- USB

Accessories

1. Serial Communication cable

RS-232/RS-485 cable is used to connect the power supply to the Host PC.

| 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 | Shield 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 |

2. 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



Also available, Genesys™
1U Half Rack 750W
1U Full Rack 750W/1500W
2U Full Rack 3300W
3U Full Rack 10/15kW

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