Programmable DC Power Supplies
3.3 kW in 2U
Built in RS-232 & RS-485 Interface
Parallel Current Summing
Optional Interfaces:    USB
                     LAN
                     IEEE488.2 SCPI Multi-Drop
                     Isolated Analog Interface

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 Test & Measurement, Industrial and Laboratory applications.

**Features include:**
- High Power Density 3.3kW in 2U
- Wide Range of popular worldwide AC inputs, 1φ (230VAC) & 3φ (208VAC, 400VAC)
- Active Power Factor Correction (Single-Phase & Three-Phase AC Input)
- Output Voltage up to 600V, Current up to 400A
- Built-in RS-232/RS-485 Interface Standard
- Last Setting Memory; Front Panel Lockout
- Advanced Parallel reports total current up to four identical units
- Global Commands for Serial RS-232/RS-485 Interface
- Reliable Encoders for Voltage and Current Adjustment
- Independent Remote ON/OFF and Remote ENABLE/DISABLE
- Reliable Modular and SMT Design
- 19" Rack Mounted for ATE and OEM Applications, zero stack
- Optional Interfaces
  - Isolated Analog Programming and Monitoring
  - IEEE Multi-Drop - SCPI
  - LXI Compliant LAN Interface
  - USB Interface
- Labview™ and LabWindows™ drivers
- Five Year Warranty

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

**Applications**

Genesys™ power supplies are designed for demanding applications. Common controls are shared across all platforms.

**Test & Measurement systems** using GPIB control save significant costs by incorporating the optional IEEE Multi-Drop Interface (IEMD) in the Master. Then up to 30 Slaves may be equipped with the less expensive Optional RS-485 Multi-Drop (MD) interface.

**Automated 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 as well as optional LAN (LXI compliant) or USB Interfaces.

**Industrial & Military** high power systems can be configured with up to four identical units in parallel, up to 60kW. No space is required above or below each power supply (zero stack). The Master can be configured by the user to report total current of the combination. Applications include Heaters, Magnets and Laser Diodes.

**Aerospace & Satellite Testing** systems use the complete Genesys™ Family: 1U 750W Half Rack, 1U 750W or 1500W Full-Rack, 2U 3.3kW and 3U 10/15kW. All are identical in Front Panel, Rear Panel Analog and Digital Interface Commands. A wide variety of outputs allows testing of many different devices.

**Component Device Testing** is simplified because of the many user-friendly control options in analog and digital interfaces. Lamps, capacitors, motors and actuators are typical devices tested.

**Medical Imaging and Treatment systems** require reliable power. Modular construction, SMT and thoroughly proven designs assure continuous performance at full rated power.

**Semiconductor Processing & Burn-in** equipment designers appreciate the wide variety of worldwide Inputs and Outputs from which to select depending on application. Selectable Safe and Auto Re-start protects loads and process integrity. Typical applications include Magnets, Filaments and Heaters.
**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 baudrate, 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 select.
   - 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-Re-Start/Safe-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.
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: 230VAC Single Phase (shown), 208 & 400VAC Three Phase, 50/60 Hz
   - AC Input Connector: PHOENIX CONTACT Power Combicon PC 6/... Series with strain relief.
9. Optional Interfaces Position for IEEE 488.2 (GPIB) (shown), Isolated Analog Interface, LAN Interface or USB Interface.

LAN Interface complies with LXI Class C Specification
1.0 MODEL GEN 8-400 10-330 15-220 20-165 30-110 40-85 80-42 100-33 150-22 300-11 600-5.5
1. Rated output voltage(*) V 8 10 15 20 30 40 60 80 100 150 300 600
2. Rated Output Current(*) A 400 330 220 165 110 85 55 42 33 22 11 5.5
3. Rated Output Power W 3200 3300 3300 3300 3300 3400 3300 3300 3300 3300 3300 3300

1.1 CONSTANT VOLTAGE MODE
1.1.1 CONSTANT VOLTAGE MODE
Accuracy (0.05%Vo Rated+0.05% of Vo Actual Output) mV 2.8 3.3 3.5 4.5 5.6 8 10 12 17 32 62
Resolution (0.1% of Vo Rated) mA 85 71 49 38 27 22 16 13.4 16.6 9.4 7.2 6.1

1.1.2 ANALOG PROGRAMMING AND MONITORING
1.2.1 Vout Voltage Programming
Accuracy (0.3% of Io Rated +0.1% of Io Actual Output) ±1% of rated Io.
Resolution (0.012% of Io Rated) mA 1300 1200 880 660 300 200 100 80 70 60 20 10

1.1.2.1 OCP
OCP 0~105% Constant Current

1.3 PROTECTIVE FUNCTIONS
1.3.1 OCP
0~10% Constant Current

1.4 ANALOG PROGRAMMING AND MONITORING
1.4.1 Vout Voltage Programming
0~100%, 0~5V or 0~10V, user select. Accuracy and linearity±1% of rated Vout.

1.4.1.2 Input Current
0~100%, 0~50mA full scale, user select Accuracy and linearity±1% of rated Iout.

1.4.2 Input Voltage Programming
0~100%, 0~50V full scale, user select Accuracy and linearity±1% of rated Vout.

1.4.2.2 Output Voltage Programming
0~5V or 0~10V, Accuracy±1% user selectable.

1.4.3 Output Power Supply OK signal
TTL high (4~5V) OK, 0V Fail.

1.4.4 Current Monitoring
0~10% Rated, 0.5% of rated current, user selectable.

1.4.4.1 Output Current Monitor (13) 8V~20V models: Less than 0.5% of rated output current over 30 minutes following power On.

1.5 FRONT PANEL
1.5.1 Control functions
Vout/ Iout manual adjust by separate encoders (coarse and fine adjustment selectable).

1.6 Interface RS232&RS485 or Optional GPIB Interface
Model | V | 8 | 10 | 15 | 20 | 30 | 40 | 60 | 80 | 100 | 150 | 300 | 600
1.6.1 Remote Voltage Programming (16 bit) Resolution (0.012% of V0) mV 96 1.2 1.8 2.4 3.6 4.8 80 7.2 9.6 12 18 36 72
Accuracy (0.05% of V0 Rated+0.05% of Vo Actual Output) mV 8 10 15 20 30 40 60 80 100 150 300 600
1.6.2 Remote Current Programming (16 bit) Resolution (0.012% of Io) mA 48 39.6 26.4 19.8 13.2 10.2 6.6 5 4.0 2.6 1.3 0.7
Accuracy (0.2% of Io Rated+0.1% of Io Actual Output) mV 1200 990 660 495 330 255 165 126 99 66 33 16.5

1.7.1 Remote Current Programming (16 bit) Resolution (0.012% of Io) mA 48 39.6 26.4 19.8 13.2 10.2 6.6 5 4.0 2.6 1.3 0.7
Accuracy (0.2% of Io Rated+0.1% of Io Actual Output) mV 1600 1320 880 660 440 340 220 168 132 88 44 22

1.8 OV/UV Programming Resolution (0.1% of Vo Rated) mV 8 10 15 20 30 40 60 80 100 150 300 600
Accuracy (1% of V0 Rated) mV 80 100 150 200 300 400 600 800 1000 1500 3000 6000

*1: Minimum voltage is guaranteed to maximum 0.2% of rated output voltage.
*2: Maximum 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 single phase and 3-Phase 208V models, and 380-415Vac (50/60Hz) for 3-Phase 400V models.
*4: Single-Phase and 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: Single-Phase and 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 1:10 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~15V models the ripple is measured from 2V to 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.
### 2.1 INPUT CHARACTERISTICS

<table>
<thead>
<tr>
<th>GEN</th>
<th>8-400</th>
<th>10-335</th>
<th>15-220</th>
<th>20-165</th>
<th>30-110</th>
<th>40-85</th>
<th>50-65</th>
<th>60-55</th>
<th>80-42</th>
<th>100-33</th>
<th>150-22</th>
<th>200-11</th>
<th>300-5.5</th>
</tr>
</thead>
</table>

### 2.2 POWER SUPPLY CONFIGURATION

1. Parallel Operation: Up to 4 identical units in master/slave mode with parallel current summing (Advanced Parallel)
2. Series Operation: Up to 2 identical units with external diodes. 650V Max to Chassis ground.

### 2.3 ENVIRONMENTAL CONDITIONS

1. Operating temp: 0~50 °C, 100% load.
2. Storage temp: -30~85°C
3. Operating humidity: 20~90% RH (non-condensing).
4. Storage humidity: 10~95% RH (non-condensing).
5. Vibration: MIL-810F, method 514.5. The EUT is fixed to the vibrating surface.
6. Shock: Less than 20G, half sine, 11mSec. Unit is unpacked.
7. Altitude: Operating: 10000ft (3000m), Derate output current by 2%/100m above 2000ft, Alternatively, derate maximum ambient temp. by 1°C/100m above 2000ft. Non operating: 40000ft (12000m).
8. RoHS Compliance: Complies with the requirements of RoHS directive.

### 2.4 EMC

1. Applicable Standards:
   - IEC1000-4-2: Air-disch.-8kV, contact disch.-4kV
   - IEC1000-4-4: 2kV
   - IEC1000-4-5: 1kV line to line, 2kV line to ground
   - IEC1000-4-6: 3V
   - EN61000-4-8: 1A/m
   - EN61000-4-11
   - EN55022A, FCC part 15A, VCCI-A
   - EN55022A, FCC part 15A, 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: Output is hazardous, IEEE/isolated analog are SELV.
   - 400<Vout: Output is hazardous, IEEE/isolated analog are SELV.
   - 400<Vout: Output is hazardous, IEEE/isolated analog are SELV.
   - 400<Vout: Output is hazardous, IEEE/isolated analog are SELV.
   - 400<Vout: Output is hazardous, IEEE/isolated analog are SELV.
   - 400<Vout: Output is hazardous, IEEE/isolated analog are SELV.
   - 400<Vout: Output is hazardous, IEEE/isolated analog are SELV.

2. Withstand voltage:
   - Vout: 40V inputs/Outputs (SELV): 424VDC 1min, Input-Ground: 282VDC 1min.
   - Vout<100V outputs: 2600VDC 1min, Input-SELV: 424VDC 1min.
   - Hazardous Output-SELV: 1900VDC 1min, Hazardous Output-Ground: 1200VDC 1min, Input-Ground: 282VDC 1min.
   - Hazardous Output-SELV: 3550VDC 1min, Hazardous Output-Ground: 2670VDC 1min, Input-Ground: 282VDC 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: 16.65in, H: 3.46in, D: 17.42in (excluding connectors, encoders, handles, etc.)
3. Weight: 13 kg.
4. AC Input connector (with Protective Cover): Single Phase,230V models, Power Combiner PC 6-16/3-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 RELIABILITY SPECS

1. Warranty: 5 years.

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**NOTE**

1. Bus bars for 8V to 100V models (shown)
2. Wire clamp connector for 150V to 600V models
3. Plug connectors included with the power supply
4. Chassis slides mounting holes #10-32 marked "A"

**GENERAL DEVICES**

P/N: C-300-5-116 or equivalent

---

**Outline Drawing Genesys™ 3.3kW Units**
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  P/N: IEMD
• 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

New Multi-Drop Slave Option  P/N: MD
• Slaves need to be equipped with the MD Slave (RS-485) option

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 ±1%
    Power supply Voltage and Current Monitoring Accuracy ±1.5%
  • Current Programming with 4-20mA signal.
    Power supply Voltage and Current Programming Accuracy ±1%
    Power supply Voltage and Current Monitoring Accuracy ±1.5%

LAN Interface  Compliant to Class C  P/N: LAN
• Meets all LXI-C Requirements
• VISA & SCPI Compatible
• LAN Fault Indicators
• Auto-detects LAN Cross-over Cable
• Compatible with most standard Networks

USB Interface  P/N: USB
• Allows Serial Connection to USB Port on computer
• Serial commands same as (standard) RS-232/RS-485 Interface
**Power Supply Identification / Accessories**

**How to order**

<table>
<thead>
<tr>
<th>GEN</th>
<th>Series Name</th>
<th>Output Voltage</th>
<th>Output Current</th>
<th>Output Power</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>GEN 8-400</td>
<td>0~8V</td>
<td>0~400</td>
<td>3200</td>
</tr>
<tr>
<td>10</td>
<td>GEN 10-330</td>
<td>0~10V</td>
<td>0~330</td>
<td>3300</td>
</tr>
<tr>
<td>15</td>
<td>GEN 15-220</td>
<td>0~15V</td>
<td>0~220</td>
<td>3300</td>
</tr>
<tr>
<td>20</td>
<td>GEN 20-165</td>
<td>0~20V</td>
<td>0~165</td>
<td>3300</td>
</tr>
<tr>
<td>30</td>
<td>GEN 30-110</td>
<td>0~30V</td>
<td>0~110</td>
<td>3300</td>
</tr>
<tr>
<td>40</td>
<td>GEN 40-85</td>
<td>0~40V</td>
<td>0~85</td>
<td>3400</td>
</tr>
</tbody>
</table>

**Models 3.3kW**

<table>
<thead>
<tr>
<th>Model</th>
<th>Output Voltage</th>
<th>Output Current</th>
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</tr>
<tr>
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</tr>
<tr>
<td>GEN 40-85</td>
<td>0~40V</td>
<td>0~85</td>
<td>3400</td>
</tr>
</tbody>
</table>

**Factory options**

- RS-32/RS-485 Interface built-in Standard
- GPIB (Multi-Drop Master) Interface IEMD
- Multi-Drop Slave Interface MD
- Voltage Programming Isolated Analog Interface IS510
- Current Programming Isolated Analog Interface IS420
- LAN Interface LAN
- USB Interface USB

**Accessories**

1. **Serial Communication cable**

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

<table>
<thead>
<tr>
<th>Mode</th>
<th>RS-485</th>
<th>RS-232</th>
<th>RS-232</th>
</tr>
</thead>
<tbody>
<tr>
<td>PC Connector</td>
<td>DB-9F</td>
<td>DB-9F</td>
<td>DB-25F</td>
</tr>
<tr>
<td>Communication Cable</td>
<td>Shield Ground L=2m EIA/TIA-568A (RJ-45)</td>
<td>Shield Ground L=2m EIA/TIA-568A (RJ-45)</td>
<td>Shield Ground L=2m EIA/TIA-568A (RJ-45)</td>
</tr>
<tr>
<td>Power Supply Connector</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>P/N</td>
<td>GEN/485-9</td>
<td>GEN/232-9</td>
<td>GEN/232-25</td>
</tr>
</tbody>
</table>

2. **Serial link cable**

   Daisy-chain up to 31 Genesys™ power supplies.

<table>
<thead>
<tr>
<th>Mode</th>
<th>Power Supply Connector</th>
<th>Communication Cable</th>
<th>P/N</th>
</tr>
</thead>
<tbody>
<tr>
<td>RS-485</td>
<td>EIA/TIA-568A (RJ-45)</td>
<td>Shield Ground L=50cm</td>
<td>GEN/RJ45</td>
</tr>
</tbody>
</table>

* Included with power supply

**Also Available Genesys™**

- **1U Half Rack 750W**
- **1U 750W/1500W**
- **2U 5kW**
- **3U 10/15kW**

---

**Remote Programming via RS-232 & RS-485 Interface**

**LAN 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.

- **P/N: IEMD**
- **P/N: LAN**
- **P/N: USB**

- VISA & SCPI Compatible
- LAN Fault Indicators
- Auto-detects LAN Cross-over Cable
- Compatible with most standard Networks
- 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
- Program Current
- Measure Voltage
- Measure Current
- Over Voltage setting and shutdown
- Current Foldback shutdown
- Error and Status Messages

**Programming Options (Factory installed)**

- New IEEE Multi-Drop Interface
- New Multi-Drop Slave Option
  - Slaves need to be equipped with the MD Slave (RS-485) option
  - 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 ±1%
- Power supply Voltage and Current Monitoring Accuracy ±1.5%
- P/N: IS420
- P/N: IS510

**Meets all LXI-C Requirements**

- Address Viewable on Front Panel
- Fixed and Dynamic Addressing
- Fast Startup

**USB Interface**

Compliant to Class C

**5V™ Genesys™ Power Parallel and Series Configurations**

- Series operation
- Parallel operation - Master/Slave:
  - Genesys Power Parallel and Series Configurations
  - In Advanced Parallel Master/Slave Mode, total current is programmed and reported by the Master. Up to four supplies act as one.

---

**How to order**

1. **Models 3.3kW**

<table>
<thead>
<tr>
<th>Model</th>
<th>Output Voltage</th>
<th>Output Current</th>
<th>Output Power</th>
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<td>GEN 8-400</td>
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   - GPIB (Multi-Drop Master) Interface IEMD
   - Multi-Drop Slave Interface MD
   - Voltage Programming Isolated Analog Interface IS510
   - Current Programming Isolated Analog Interface IS420
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2. **Serial link cable**

   Daisy-chain up to 31 Genesys™ power supplies.

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</thead>
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<tr>
<td>RS-485</td>
<td>EIA/TIA-568A (RJ-45)</td>
<td>Shield Ground L=50cm</td>
<td>GEN/RJ45</td>
</tr>
</tbody>
</table>

* Included with power supply