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.

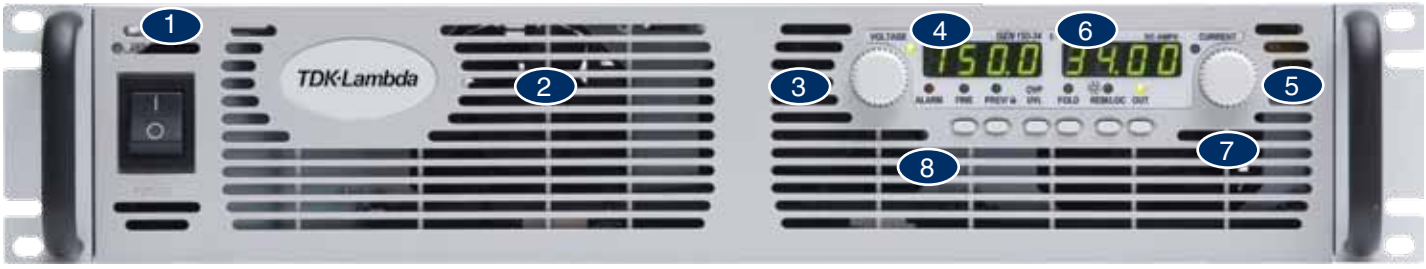
Test Systems using the IEEE-488 bus may achieve significant cost savings by incorporating the Optional IEEE Multi-Drop Interface for a Master and up to 30 RS-485 Multi-Drop Slaves. Then up to 30 Slaves may be equipped with the less expensive Optional RS-485 Multi-Drop (MD) interface.

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 GenesysTM 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/ºC 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 OUT 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	lees 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.

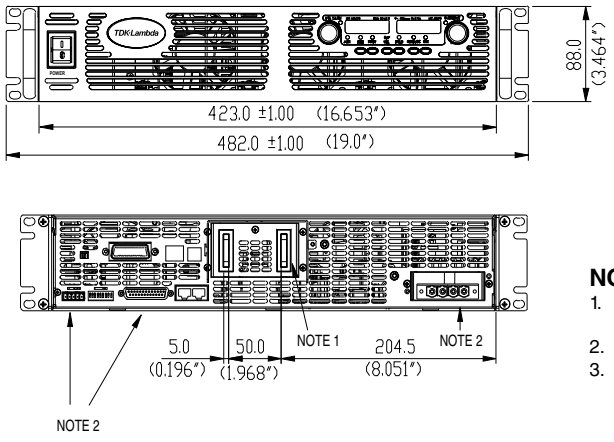
2.6 MECHANICAL CONSTRUCTION

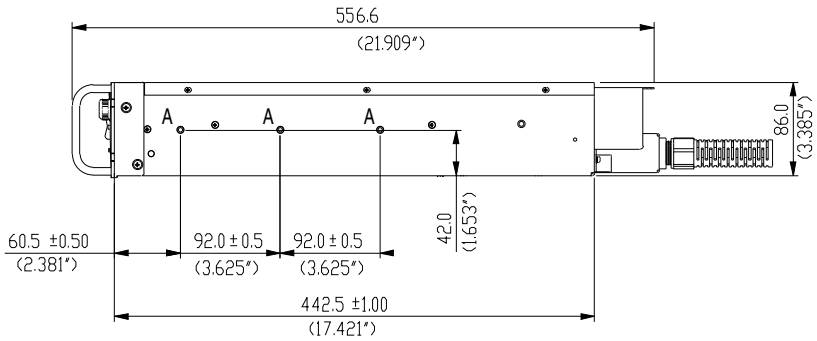
1. Cooling	Forced air flow: from front to rear. No ventilation holes at the top or bottom of the chassis; Variable fan speed.
2. Dimensions (WxHxD)	W: 423mm / 16.65" H: 88mm / 3.46", D: 442.5mm / 17.42" (excluding connectors, encoders, handles, etc.)
3. Weight	16 kg. / 35.2lbs
4. AC Input connector (with 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





NOTE

1. Bus bars for 8V to 100V models (shown)
   Wire clamp connector for 150V to 600V models
2. Plug connectors included with the power supply
3. Chassis slides mounting holes #10-32 marked "A"
   GENERAL DEVICES P/N: C-300-S-116 or equivalent

Genesys™ Power Parallel and Series Configurations

Parallel operation - Master/Slave:

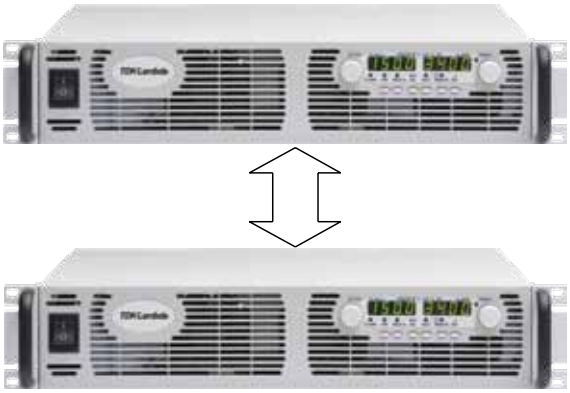
Active current sharing allows up to four identical units to be connected in an auto-parallel configuration for four times the output power. **In Advanced Parallel Master/Slave Mode, total current is programmed and reported by the Master, Up to four supplies act as one.**

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 — 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. **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
- Fast Startup
- 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

GEN **8** - **600** - _____ - _____

Factory Options

AC Input Options

Series Name	Output Voltage (0~8V)	Output Current (0~600A)	Option:	Factory Options	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

	P/N
RS-232/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 (Complies with LXI Class C)	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.

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

TDK·Lambda GLOBAL NETWORK

USA
TDK-Lambda Americas Inc.
405 Essex Rd. Neptune, NJ 07753
Tel: +1-732-922-9300 Fax: +1-732-922-1441
E-mail: sales@us.tdk-lambda.com
www.us.tdk-lambda.com/hp

CANADA
ACA TMetrix
5805 Kennedy Road, Mississauga, Ontario, L4Z 2G3
Tel: +1-800-665-7301 Fax: +1-905-890-1959
Email: lambda@aca.ca
tmetrix.com

MEXICO
AcMax de Mexico
39 Poniente 3515 Piso 5 Col. Las Animas
Puebla, Pue. C.P. 72400
Tel: 01-800-211-0060 / (222) 891-8484 Fax: 222-264-1445
Email: info@acmax.mx, Web: www.acmax.mx

BRAZIL
Supplitec
Rua Sena Madureira 455, Belo Hte - 31340-000
Tel: +55-31-3498 1177 Fax: +55-31-3441 0841
www.suplitec.com.br

UK | IRELAND
TDK-Lambda UK
Kingsley Avenue
Ilfracombe, Devon EX 34 8ES
Tel: +44-1271-856666 Fax: +44-1271-864894
E-mail: powersolutions@uk.tdk-lambda.com
www.uk.tdk-lambda.com

FRANCE | NETHERLANDS | SPAIN
TDK-Lambda France
ZAC des Delaches, CS 41077
9 rue Thuillere, 91978 Villebon Courtaboeuf
Tel: +33 1 60 12 71 65 Fax: +33 1 60 12 71 66
www.fr.tdk-lambda.com

GERMANY | AUSTRIA | SWITZERLAND
TDK-Lambda Germany
Karl-Bold-Str.40, D-77855 Achern
Tel: +49-7841-666-0 Fax: +49-7841-500-0
E-mail: info.germany@de.tdk-lambda.com
www.de.tdk-lambda.com

ITALY
TDK-Lambda Italy
Via dei Lavoratori 128/130
IT 20092 Cinisello Balsamo (MI)
Tel: +39-02-6129-3863 Fax: +39-02-6129-0900
E-mail: info.italia@it.tdk-lambda.com
www.it.tdk-lambda.com

SCANDINAVIA | BALTICS
TDK-Lambda Germany
Karl-Bold-Str.40, D-77855 Achern
Tel: +49-7841-666-0 Fax: +49-7841-500-0
E-mail: info.germany@de.tdk-lambda.com
www.de.tdk-lambda.com

JAPAN
TDK-Lambda Corporation
International Sales Division,
3-9-1, Shibaura, Minato-ku,
Tokyo 108-0023
Tel: +81 3-6852-7136 Fax: +81 3-6852-7148
E-mail: t.morimoto@jp.tdk-lambda.com
www.jp.tdk-lambda.com

CHINA
TDK-Lambda Shanghai Office
28F, Xingyuan Technology Building No.418, Guiping Road,
Shanghai, 200233 P.R. CHINA
Tel: +86-21-6485-0777 Fax: +86-21-6485-0666
www.cn.tdk-lambda.com

TDK-Lambda Beijing Office
Room 12B11-12B12, Unit 7 DACHENG SQUARE,
No.28 Xuanwumenxi Street, Xuanwu District Beijing,
100053, P.R. CHINA
Tel: +86-10-6310-4872 Fax: +86-10-6310-4874
www.cn.tdk-lambda.com

TDK-Lambda Hong Kong Office
1 / F. SAE Technology Centre, 6 science Park East Avenue,
HongKong Science Park, Shatin, NT.,
Tel: +852-23766658 Fax: +852-23172150
www.cn.tdk-lambda.com

KOREA
TDK-Lambda Corporation
6F Songok Bldg. 4-1 Soonae-Dong
Pundang-Gu, Songnam-Shi Kyonggi-Do, 463-020
Tel: +82-2-556-1171 Fax: +82-2-555-2706
www.tdk-lambda.co.kr

MALAYSIA
TDK-Lambda Malaysia
Lot 709, Nilai Industrial Estate
71800 Nilai, Negeri Sembilan
Tel: +60-6-799-1130 Fax: +60-6-799-3277
www.my.tdk-lambda.com

SINGAPORE | PHILIPPINES | THAILAND
TDK-Lambda Singapore
1008 Toa Payoh North # 06-01/08
Singapore 318996
Tel: +65-6251-7211 Fax: +65-6250-9171
www.sg.tdk-lambda.com

INDIA
TDK-Lambda India
#526, Ground Floor, 10th Main, 7th Cross,
Jeevanbhimanagar, Bangalore 560 075,
Karnataka, India
Tel : +91-80-43550500 Fax :+91-80-43550501
www.in.tdk-lambda.com

ISRAEL | RUSSIA
TDK-Lambda Ltd. Israel
Kibbutz Givat Hashlosha Tel-Aviv 48800
Tel: +972-3-9024-333 Fax: +972-3-9024-777
E-mail: info@tdk-lambda.co.il
www.tdk-lambda.co.il

TDK-Lambda Americas Inc. 405 Essex Road, Neptune, NJ 07753 USA
Tel: +1 732 922 9300 Fax: +1 732 922 1441
www.us.tdk-lambda.com/hp

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