Технические характеристики на программируемые источники питания Genesys 1U

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Genesys™

Programmable DC Power Supplies
2.4kW in 1U
Built in RS-232 & RS-485 Interface
Advanced Parallel Operation
Auxiliary Outputs 5V & 15V

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

The GenesysTM 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 2.4kW in 1U
- Wide Range of popular worldwide AC inputs, 1ø (230VAC) & 3ø (208VAC)
- Active Power Factor Correction (Single-Phase & Three-Phase AC Input)
- Output Voltage up to 600V, Current up to 300A
- Auxillary Outputs 5V/0.2A; 15V/0.2A for increased system control functionality
- 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
  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

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Applications

GenesysTM 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.

Higher power systems can be configured with up to four 2.4kW modules. Each module is 1U with zero space between them (zero stack).

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

A wide variety of outputs allows testing of many different devices.

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 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

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.
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: 230VAC Single Phase (shown), 208 VAC Three Phase, 50/60 Hz AC Input Connector: Phoenix P/N: FRONT-4-H-7.62.
9. Optional Interface Position for IEEE 488.2 SCPI (shown) or Isolated Analog Interface or LAN Interface.
10. Auxiliary Output Voltage Connector. Phoenix P/N: IMC1.5/7-ST-3.81

Genesys ™ 2.4kW Specifications

1.0 MODEL — Specifications in blue are improved

MODEL	GEN	8-300	10-240	16-150	20-120	30-80	40-60	60-40	80-30	100-24	150-16	300-8	600-4
1.Rated output voltage(*1)	V	8	10	16	20	30	40	60	80	100	150	300	600
2.Rated Output Current(*2)	A	300	240	150	120	80	60	40	30	24	16	8	4
3.Rated Output Power	W	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400

1.1 CONSTANT VOLTAGE MODE

1.Max.line regulation (0.01% of rated Vo+ 2mV)(*6)	mV	2.8	3	3.5	4	5	6	8	10	12	17	32	62
2.Max load regulation (0.015% of rated Vo+5mV)(*7)	mV	6.2	6.5	7.25	8	9.5	11	14	17	20	27.5	50	95
3.Ripple and noise p-p 20MHz (*8)	mV	50	50	50	50	55	55	60	60	70	90	150	240
4.Ripple r.m.s 5Hz~1MHz	mV	6	6	6	6	6	6	6	7	10	20	45	60
5.Remote sense compensation/wire	V	2	2	2	2	5	5	5	5	5	5	5	5
6.Temp. coefficient	PPM/°C	50PPM/°C of rated output voltage,following 30 minutes warm-up											
7.Temp. stability		0.01% of rated Vout over 8hrs interval following 30 minutes warm-up. Constant line, load & temp.											
8.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	15					20	30	40	40	60	80	100
10.Down-prog response time — Full-load (*9)	mS	10	10	20	20	20	20	30	50	50	80	100	100
10.Down-prog response time — No-load (*10)	mS	500	500	500	500	600	700	1100	1200	1500	2500	3000	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 (0.01% of rated Io+2mA)(*6)	mA	32	26	17	14	10	8	6	5	4.4	3.6	2.8	2.4
2.Max.load regulation (0.02% of rated Io+5mA)(*11)	mA	65	53	35	29	21	17	13	11	9.8	8.2	6.6	5.8
3.Ripple r.m.s 5Hz~1MHz . (*12)	mA	700	500	400	250	150	90	60	40	30	12	10	5
4.Load regulation thermal drift		Less than 0.1% of rated output current over 30 minutes following load change.											
5.Temp. coefficient	PPM/°C	70PPM/°C from rated output current, following 30 minutes warm-up.											
6.Temp. stability		0.01% of rated Iout over 8hrs. interval following 30minutes warm-up. Constant line, load & temperature.											
7.Warm-up drift		8V~20V models: Less than ±0.5% of rated output current over 30 minutes following power On.											
		30V~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	1~18V	1~24V	2~36V	2~44V	5~66V	5~88V	5~110V	5~165V	5~330V	5~660V
5. Output Under Voltage Limit	Preset by front panel or communication port. Prevents from adjusting Vout below limit.										
6. 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 (*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, 2~15V 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: 0.05% of rated output Voltage ±1 count.
	Current: 4 digits, Accuracy: 0.2% of rated output current ±1 count.
3.Indications	Voltage, Current, Alarm, Fine, Preview, Foldback, Local, Output On, Front Panel Lock, CVCC.

1.6 Interface Specifications for the GENESYS Series with RS-232/RS-485 Or Optional GPIB/LAN Interface Installed

1. Remote Voltage Programming (16 bit)	V	8	10	15	20	30	40	60	80	100	150	300	600
Resolution (0.002% of Vo Rated)	mV	0.16	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2	3	6	12
Accuracy (0.05% of Vo Rated) (*14)	mV	4	5	8	10	15	20	30	40	50	75	150	300
2. Remote Current Programming (16 bit)													
Resolution (0.002% of Io Rated)	mA	6	4.80	3.00	2.40	1.60	1.20	0.80	0.60	0.48	0.32	0.16	0.08
Accuracy (0.2% of Io Rated+0.1% of Io Actual Output) (*13)	mA	900	720	450	360	240	180	120	90	72	48	24	12
3. Readback Voltage													
Resolution (% of Vo Rated)	%	0.002	0.011	0.007	0.006	0.004	0.003	0.002	0.002	0.011	0.007	0.004	0.002
Resolution (Readback Voltage)	mV	0.16	1.10	1.05	1.20	1.20	1.20	1.20	1.60	11.00	10.50	12.00	12.00
Accuracy (0.05% of Vo Rated)	mV	4	5	8	10	15	20	30	40	50	75	150	300
4. Readback Current													
Resolution (% of Io Rated)	%	0.004	0.005	0.007	0.009	0.002	0.002	0.003	0.004	0.005	0.007	0.002	0.003
Resolution (Readback Current)	mA	12	12	10.5	10.8	1.6	1.2	1.2	1.2	1.2	1.120	0.160	0.120
Accuracy (0.3% of Io Rated) (*13)	mA	900	720	450	360	240	180	120	90	72	48	24	12
5. OVP/UVL Programming													
Resolution (0.1% of Vo Rated)	mV	8	10	15	20	30	40	60	80	100	150	300	600
Accuracy (1% of Vo 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: 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.
*4: 3-Phase 208V models: At 208Vac 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.
*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
*9: From 10% to 90% or 90% to 10% of Rated Output Voltage, with rated, resistive load with 10:1 probe.
*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.
*14: Measured at the sensing point.

General Specifications Genesys™ 2.4kW

2.1 INPUT CHARACTERISTICS		GEN	8-300	10-240	16-150	20-120	30-80	40-60	60-40	80-30	100-24	150-16	300-8	600-4
1. Input voltage/freq. (*3)		VAC	Single Phase,230V models: 170~265Vac, 47~63Hz											
			3-Phase, 208V models: 170~265Vac, 47~63Hz											
2. Maximum Input current at 100% load	Single Phase,230V models:	A	17.3	17.3	17.3	16.8	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6
	3-Phase, 208V models:		10.5	10.5	10.5	10.2	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
3. Power Factor (Typ)			Single Phase models: 0.99@230Vac, rated output power. 3-Phase models: 0.94@208Vac, rated output power.											
4. Efficiency (*4)		%	84	84	86	86	86	88	88	88	88	88	88	87
5. Inrush Current (*5)		A	Single-Phase and 3-Phase 208V models: Less than 50A											

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

2.3 ENVIRONMENTAL CONDITIONS	
1. Operating temp	0~50°C, 100% load.
2. Storage temp	-20~85°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 2000m, Alternatively, derate maximum ambient temp. by 1°C/100m above 2000m. Non operating: 40000ft (12000m).
8. RoHS Compliance	Complies with the requirements of RoHS directive.

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:	UL 60950-1, CSA 22.2 No. 60950-1,IEC 60950-1, EN 60950-1
2.Interface classification	Models with Vout 50V: Output is SELV, all communication/control interfaces: RS232/485, IEEE, Isolated Analog,LAN, Sense, Remote Programming and Monitoring, 5V d.c. auxiliary output are SELV
	Models with 60V Vout 400V: Output is Hazardous, communication/control interfaces: RS232/485, IEEE,Isolated Analog, LAN, Remote Programing and Monitoring (pins 1-3, pins14-16), 5V d.c. auxiliary output are SELV, Sense, Remote Programming and Monitoring (pins 8-13, pins 21-25),15V auxiliary output are Hazardous.
	Models with 400V Vout 600V: Output is Hazardous, all communication/control interfaces-RS232/485, IEEE, Isolated Analog, LAN, Sense, Remote Programming and Monitoring (all pins), 5V d.c./15V d.c. auxiliary outputs are Hazardous.
3.Withstand voltage	Vout 50V models: Input-Output/communication/control/auxiliary outputs (SELV): 4242VDC 1min, Input-Ground: 2828VDC 1min., Output/communication/control/auxiliary outputs (SELV)-Ground: 1000VDC 1min.
	60V Vout 100V models: Input-Output/15V d.c. auxiliary output/communication/control (Hazardous): 2600VDC 1min, Input-communication/control/5V d.c. auxiliary output (SELV): 4242VDC 1min, Output/15V d.c. auxiliary output/communication/control (Hazardous): - communication/control/5V d.c. auxiliary output (SELV): 1900VDC 1min,Output/15V d.c. auxiliary output/communication/control (Hazardous): -Ground: 1200VDC 1min,Input-Ground: 2828VDC 1min.
	100V Vout 600V models: Input-Output/15V d.c. auxiliary output/communication/control (Hazardous): 4000VDC 1min, Input-communication/control/5V d.c. auxiliary output (SELV): 4242VDC 1min, Output/15V d.c. auxiliary output/communication/control (Hazardous): -communication/control/5V d.c. auxiliary output (SELV): 3550VDC 1min, Output/15V d.c. auxiliary output/communication/control (Hazardous): -Ground: 2670VDC 1min, Input-Ground: 2828VDC 1min.
3.Insulation resistance	More than 100Mohm at 25°C , 70% RH.

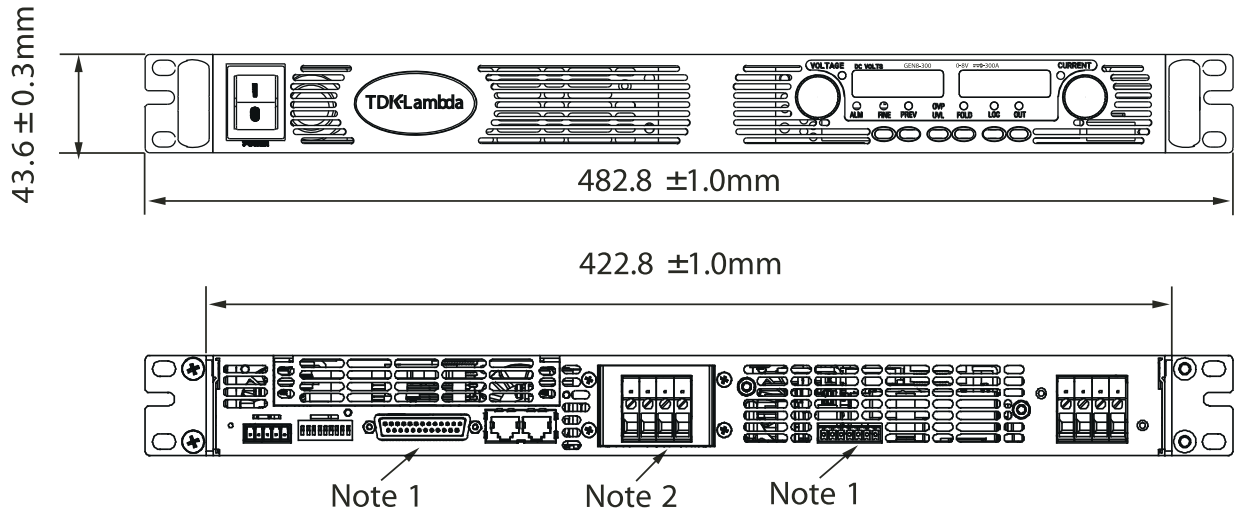
2.6 MECHANICAL CONSTRUCTION	
1. Cooling	Forced air flow: from front to rear. No ventilation holes at the top or bottom of the chassis; Variable fan speed.
2. Dimensions (WxHxD)	W: 423mm, H: 43.6mm, D: 441mm (excluding connectors, encoders, handles, etc.)
3. Weight	Less than 10 kg.
4. AC Input connector (with Protective Cover)	Single Phase,230V models, Power Combicon PC 6-16/3-GF-10,16 series, with Strain relief.
	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

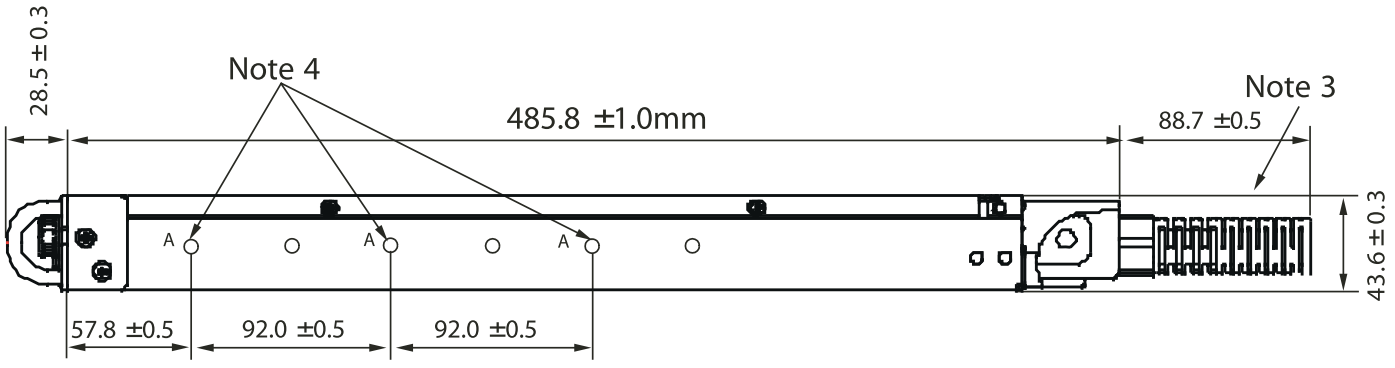
2.7 AUXILARY OUTPUTS	
1. 15V Output (*8)	15V± 5%, 0.2A Max Load, Ripple & Noise 100mVp-p. referenced internally to the negative output potential.
2. 5V Output	5V± 5%, 0.2A Max Load, Ripple & Noise 100mVp-p. referenced internally to IF_COM potential.

2.8 RELIABILITY SPECS	
1. Warranty	5 years.

All specifications subject to change without notice.

Outline Drawing Genesys™ 2.4kW Units





NOTE

1. ating plug supplied with power supply.
2. us bars for 8V to 100V models. See Detail
2. c cable strain relief supplied with power supply.
4. hassis slides mounting holes #10-32 marked "A".
   GENERAL DEVICES P/N: CC3001-00-5160 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.

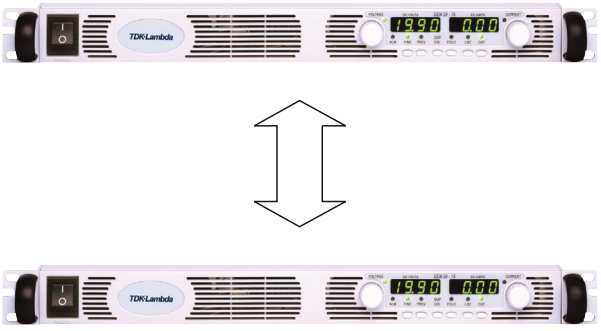
In Advanced Parallel Master/Slave Mode, total current is programmed and reported by the Master, Up to four supplies act as one.

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.



Programming Options (Factory installed)

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

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

Isolated Analog Programming

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

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

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

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

Power Supply Identification / Accessories

How to order

GEN	8 -	300 -		-
			Factory Options:	Factory AC Input Options:
Series Name	Output Voltage (0~8V	Output Current (0~300A)	Option: IEEE IS510 IS420 LAN	1P230 (Single Phase 170~265VAC) 3P208 (Three Phase 170~265VAC)

Models 2.4kW

Model	Output Voltage VDC	Output Current (A)	Output Power (W)
GEN 8-300	0~8V	0~300	2400
GEN 10-240	0~10V	0~240	2400
GEN 16-150	0~16V	0~150	2400
GEN 20-120	0~20V	0~120	2400
GEN 30-80	0~30V	0~80	2400
GEN 40-60	0~40V	0~60	2400

Model	Output Voltage VDC	Output Current (A)	Output Power (W)
GEN 60-40	0~60V	0~40	2400
GEN 80-30	0~80V	0~30	2400
GEN 100-24	0~100V	0~24	2400
GEN 150-16	0~150V	0~16	2400
GEN 300-8	0~300V	0~8	2400
GEN 600-4	0~600V	0~4	2400

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

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 Communication Cable Power Supply Connector	DB-9F Shield Ground L=2m EIA/TIA-568A (RJ-45)	DB-9F Shield Ground L=2m EIA/TIA-568A (RJ-45)	DB-25F Shield Ground L=2m 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

Genesys™

Programmable DC Power Supplies
750W/1500W in 1U
Built in RS-232 & RS-485 Interface
Advanced Parallel Operation

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

The GenesysTM 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: 1500W in 1U
- Wide Range Input (85 - 265Vac Continuous, single phase, 47/63Hz)
- Active Power Factor Correction (0.99 typical)
- Output Voltage up to 600V, Current up to 200A
- Built-in RS-232/RS-485 Interface Standard
- Last-Setting Memory
- Global Commands for Serial RS-232/RS-485 Interface
- Front Panel Lock selectable from Front Panel or Software
- 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
- 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 Mounted 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 Interface
- LabView® and LabWindows® drivers
- Five Year Warranty

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

c UL us LISTED TÜV Rheinland GS geprüfte Sicherheit CE

Applications

Genesys™ power supplies have been designed to meet the demands of a wide variety of applications.

Common controls are shared all Genesys™ Series.

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.

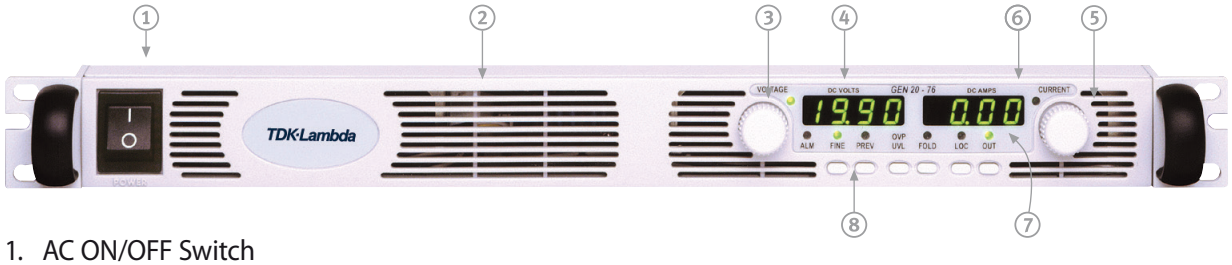
Heater Supplies

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.

Front Panel Description

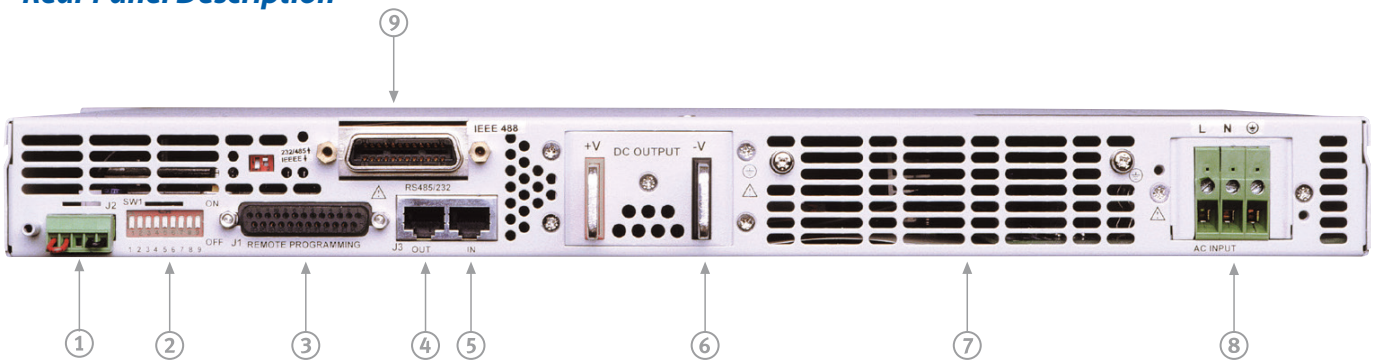


1. AC ON/OFF Switch
2. Air Intake allows zero stacking for maximum system flexibility and power density.
3. Reliable encoder controls Output Voltage and sets Address.
4. Volt Display shows Output Voltage and directly displays OVP, UVL and Address settings.
5. Reliable encoder controls Output Current,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

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 for up to 60V Output; wire clamp connector for Outputs >60V.
7. Exit air assures reliable operation when zero stacked.
8. Wide-Range Input 85-265VAC continuous, 47/63Hz with Active Power Factor Correction (0.99 typical). AC Input Connector: 750W (IEC320), 1500W (screw terminal-shown).
9. Optional Interface Position for IEEE 488.2 SCPI (shown) or Isolated Analog Interface or LAN Interface.

7.Temp. stability	%	0.01% of rated Vout over 8hrs interval following 30 minutes warm-up. Constant line, load & temp.

Genesys ™ 750W/1500W Specifications

Specifications in Blue are improved

1.0 MODEL	GEN	6-200	8-180	12.5-120	20-76	30-50	40-38	50-30	60-25	80-19	100-15	150-10	300-5	600-2.6	750W	1500W
1. Rated output voltage (*1)	V	6	8	12.5	20	30	40	50	60	80	100	150	300	600		X
2. Rated Output Current (*2)	A	200	180	120	76	50	38	30	25	19	15	10	5	2.6		X
3. Rated Output Power	W	1200	1440	1500	1520	1500	1520	1500	1500	1520	1500	1500	1500	1560		X
4. Efficiency at 100/200Vac (*3)	%	77/79	78/81	82/85	83/86	83/86	84/88	84/88	84/88	84/88	84/88	84/88	84/88	84/88		X

1.0 MODEL	GEN	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	X	
1. Rated output voltage (*1)	V	6	8	12.5	20	30	40	---	60	80	100	150	300	600	X	
2. Rated Output Current (*2)	A	100	90	60	38	25	19	---	12.5	9.5	7.5	5	2.5	1.3	X	
3. Rated Output Power	W	600	720	750	760	750	760	---	750	760	750	750	750	780	X	
4. Efficiency at 100/200Vac (*3)	%	76/78	77/80	81/84	82/85	82/85	83/87	---	83/87	83/87	83/87	83/87	83/87	83/87	X	

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	7	8	10	12	17	32	62	X	X
2. Max load regulation (0.01% of Vo+2mV)(*5)	mV	2.6	2.8	3.3	4	5	6	7	8	10	12	17	32	62	X	X
3. Ripple and noise p-p 20MHz (*9)	mV	60	50	60	60	50	60	40	60	75	75	75	130	300	X	X
4. Ripple r.m.s 5Hz~1MHz (*9)	mV	8	6	7	7.5	6	7	5	7	7	8	8	20	60	X	X
5. Remote sense compensation/line	V	1	1	1	1	1.5	2	2	3	4	5	5	5	5	X	X
6. Temp. coefficient	PPM/°C	50PPM/°C of rated output voltage, following 30 minutes warm up													X	X
7. Temp. stability	%	0.01% of rated Iout over 8hrs interval following 30 minutes warm-up. Constant line, load & temp.													X	X
8. Up-prog. response time, 0~Vo Rated	mS	80mS, N.L/F.L, resistive load								150mS, N.L/F.L, resistive load				250	X	X
9. Down-prog response time full-load	mS	10	50			80				150				250	X	X
10. Down-prog response time No-load	mS	500	600	700	800	900	1000	1100	1100	1200	1500	2000	2500	4000	X	X
11. Transient response time (*8)	mS	Less than 1mSec for models up to and including 100V. 2mSec for models above 100V													X	X
12. Temp. drift	%	0.01% of rated Vout over 8hrs interval following 30 minutes warm up. Constant line, load & temp.													X	X

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	X	
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	X	
3. Ripple r.m.s 5Hz~1MHz . (*7)	mA	190	160	110	50	45	30	---	15	10	10	8	6	4	X	
4. Max.line regulation (0.01% of Io+ 2mA)(*4)	mA	22	20	14	9.6	7.0	5.8	5	4.5	3.9	3.5	3.0	2.5	2.26		X
5. Max.load regulation (0.02% of Io+5mA)(*6)	mA	45	41	29	20.2	15	12.6	11	10	8.8	8.0	7.0	6.0	5.52		X
6. Ripple r.m.s 5Hz~1MHz .(*7)	mA	350	300	210	120	60	65	60	60	40	20	15	15	7		X
7. Temp. coefficient	PPM/°C	70PPM/°C from rated output voltage, following 30 minutes warm up													X	X
8. Temp. drift	%	0.01% of rated Vout over 8hrs interval following 30 minutes warm up. Constant line, load & temp.													X	X
9. Warm up drift	%	Less than 0.1% rated output current over 30 min following power on or output voltage / current change													X	X

1.3 PROTECTIVE FUNCTIONS

1. OCP	0~105% Constant Current													X	X
2. OCP Foldback	Output shut down when power supply change from CV to CC. User selectable.													X	X
3. OVP type	Inverter shut-down, manual reset by AC input recycle or by OUT button or by communication port													X	X
4. OVP trip point	0.5~7.5V	0.5~10V	1~15V	1~24V	2~36V	2~44V	5~57V	5~66V	5~88V	5~110V	5~165V	5~330V	5~660V	X	X
5. Over Temp Protection	User selectable, latched or non latched													X	X

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.	X	X
2. Iout Voltage Programming	0~100%, 0~5V or 0~10V, user select. Accuracy and linearity: +/-1% of rated Iout.	X	X
3. Vout Resistor Programming	0~100%, 0~5/10Kohm full scale,user select.,Accuracy and linearity: +/-1% of rated Vout.	X	X
4. Iout Resistor Programming	0~100%, 0~5/10Kohm full scale,user select. Accuracy and linearity: +/-1.5% of rated Iout.	X	X
5. On/Off control (rear panel)	By electrical. Voltage: 0~0.6V/2~15V, or dry contact, user selectable logic	X	X
6. Output Current monitor	0~5V or 0~10V, accuracy: 1%, user selectable	X	X
7. Output Voltage monitor	0~5V or 0~10V, accuracy: 1%, user selectable	X	X
8. Power Supply OK signal	TTL high (4~5V) -OK, 0V-Fail 500ohm series resistance	X	X
9. CV/CC indicator	Open collector, CC mode: On, CV mode: Off, Maximum voltage: 30V, maximum sink current: 10mA	X	X
10. Enable/Disable	Dry contact. Open: off, Short: on. Max. voltage at Enable/Disable in: 6V	X	X
11. Local/Remote analog control	By electrical signal or Open/Short: 0~0.6V or short: Remote, 2~15V or open: Local.	X	X
12. Local/Remote analog control indicator	Open collector, Local: Open, Remote: On. Maximum voltage: 30V, maximum sink current: 5mA.	X	X

1.5 FRONT PANEL

1. Control functions	Vout/Iout manual adjust by separate encoders (coarse and fine adjustment selectable)	X	X
	OVP/UVL manual adjust by Volt. Adjust encoder	X	X
	AC on/off, Output on/off, Re-start modes (auto, safe), Foldback control (CV to CC), Go to local control	X	X
	Address selection by Voltage (or current) adjust encoder. Number of addresses: 31	X	X
	RS232/485 and IEEE488.2 selection by IEEE enable switch and DIP switch	X	X
	Baudrate selection: 1200, 2400, 4800, 9600 and 19,200	X	X
2. Display	Voltage 4 digits, accuracy: 0.05%+/-1 count	X	X
	Current 4 digits, accuracy: 0.2%+/-1 count	X	X
3. Indications	Voltage, Current, Alarm, Fine, Preview, Foldback, Local, Output On, Front Panel Lock	X	X

1.6 Interface RS-232&RS-485 or Optional GPIB / LAN Interface															750W	1500W
Model	V	6	8	12.5	20	30	40	50	60	80	100	150	300	600	X	X
1. Remote Voltage Programming (16 bit)																
Resolution (0.02% of Vo Rated)	mV	0.12	0.16	0.25	0.4	0.6	0.8	1.0	1.2	1.6	2.0	3.0	6.0	12.0	X	X
Accuracy 0.05%Vo Rated Output Voltage (*11)	mV	3.0	4.0	6.3	10	15	20	25	30	40	50	75	150	300	X	X
2. Remote Current Programming (16 bit)																
Resolution (0.002% of Io Rated)	mA	2.00	1.80	1.20	0.76	0.50	0.38	---	0.25	0.19	0.15	0.10	0.05	0.03	X	
Accuracy (0.1% of Io Rated+0.1% of Io Actual Output)(*10)	mA	200	180	120	76	50	38	---	25	19	15	10	5.0	2.6	X	
Resolution (0.002% of Io Rated)	mA	4.0	3.60	2.40	1.52	1.0	0.76	0.60	0.50	0.38	0.30	0.20	0.10	0.05		X
Accuracy (0.1% of Io Rated+0.1% of Io Actual Output)(*10)	mA	400	360	240	152	100	76	60	50	38	30	20	10	5.2		X
3. Readback Voltage																
Resolution of Vo Rated	mV	0.12	0.16	1.125	1.20	1.20	1.2	1.5	1.2	1.60	11.0	10.50	12	12	X	X
Accuracy 0.05% Vo Rated	mV	3	4	6.3	10	15	20	25	30	40	50	75	150	300	X	X
4. Readback Current																
Resolution of Io Rated	mA	11	1.80	1.20	1.14	1.25	1.14	---	1.13	0.19	0.15	0.15	0.13	0.12	X	
Accuracy 0.3% of Io Rated (*10)	mA	300	270	180	114	75	57	---	37.50	28.50	22.50	15	7.50	3.90	X	
Resolution of Io Rated output	mA	12	10.80	10.80	1.52	1.50	1.14	1.20	1.25	1.14	1.05	1.10	0.15	0.10		X
Accuracy 0.3% of Io Rated (*10)	mA	600	540	360	228	150	114	90	75	57	45	30	15	7.8		X
5. OVP/UVL Programming																
Resolution (0.1% of Vo Rated)	mV	6	8	12	20	30	40	50	60	80	100	150	300	600	X	X
Accuracy (1% of Vo Rated)	mV	60	80	125	200	300	400	500	600	800	1000	1500	3000	6000	X	X

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

General Specifications Genesys™ 750W/1500W

2.1 INPUT CHARACTERISTICS	
1. Input voltage/freq. (*1)	85~265Vac continuous, 47~63Hz, single phase
2. Power Factor	0.99 @100/200Vac, rated output power.
3. EN61000-3-2,3 compliance	Complies with EN61000-3-2 class A and EN61000-3-3 at 20~100% output power.
4. Input current 100/200Vac	750W :10.5A / 5A, 1500W :21A / 11A
5. Inrush current 100/200Vac	750W :Less than 25A, 1500W :Less than 50A
6. Hold-up time	More than 20mS, 100Vac, at 100% load.

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

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

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

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

2.6 MECHANICAL CONSTRUCTION	
1. Cooling	Forced air flow: from front to rear. No ventilation holes at the top or bottom of the chassis; Variable fan speed.
2. Dimensions (WxHxD)	W: 422.8mm, H: 43.6mm, D: 432.8mm (excluding connectors, encoders, handles, etc.)
3. Weight	750W: 7Kg (15 Lbs) 1500W: 8.5Kg (18 Lbs)
4. AC Input connector	750W: IEC320 AC Inlet.
	1500W: Screw terminal block, Phoenix P/N: FRONT-4-H-7.62, with strain relief
5. Output connectors	6V to 60V models: Bus-bars (hole Ø 8.5mm). 80V to 600V models: wire clamp connector, Phoenix P/N: FRONT-4-H-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.

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

Programming Options (Factory installed)

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

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

Isolated Analog Programming

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

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

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

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

Power Supply Identification / Accessories How to order

GEN	600	-	2.6	-		-	
				Factory Options			AC Cable option is 750W only
Series Name	Output Voltage (0~600V)		Output Current (0~2.6A)	Option: IEEE IS510 IS420 LAN		Region: E - Europe GB - United Kingdom J - Japan I - Middle East U- North America	

Models 750/1500W

Model	Output Voltage VDC	Output Current (A)	Output Power (W)
GEN6-100	0~6V	0~100	600
GEN6-200		0~200	1200
GEN8-90	0~8V	0~90	720
GEN8-180		0~180	1440
GEN12.5-60	0~12.5V	0~60	750
GEN12.5-120		0~120	1500
GEN20-38	0~20V	0~38	760
GEN20-76		0~76	1520
GEN30-25	0~30V	0~25	750
GEN30-50		0~50	1500
GEN40-19	0~40V	0~19	760
GEN40-38		0~38	1520

Model	Output Voltage VDC	Output Current (A)	Output Power (W)
GEN50-30	0~50V	0~30	1500
GEN60-12.5	0~60V	0~12.5	750
GEN60-25		0~25	1500
GEN80-9.5	0~80V	0~9.5	760
GEN80-19		0~19	1520
GEN100-7.5	0~100V	0~7.5	750
GEN100-15		0~15	1500
GEN150-5	0~150V	0~5	750
GEN150-10		0~10	1500
GEN300-2.5	0~300V	0~2.5	750
GEN300-5		0~5	1500
GEN600-1.3	0~600V	0~1.3	780
GEN600-2.6		0~2.6	1560

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

AC Cords sets (750W only)

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

Accessories

1. Communication cable

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

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

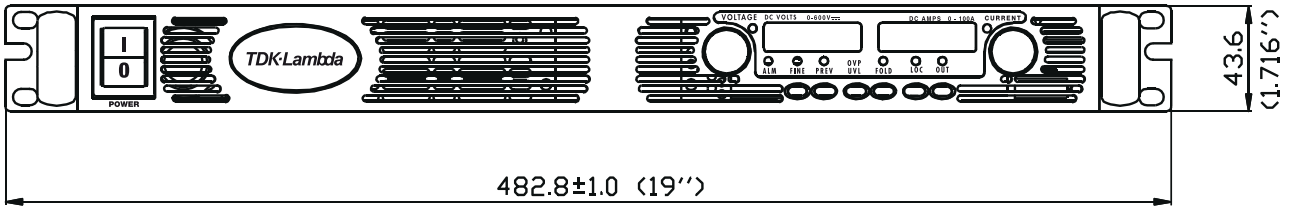
2. Serial link cable*

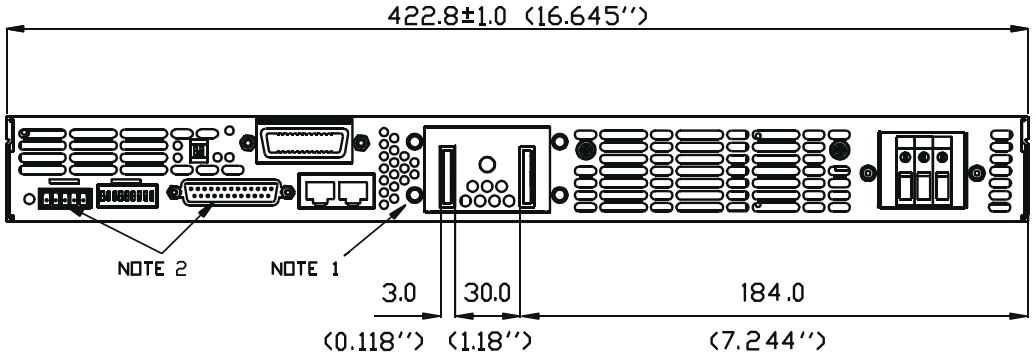
Daisy-chain up to 31 Genesys™ power supplies.

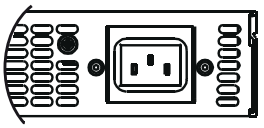
Mode	Power Supply Connector	Communication Cable	P/N
RS-485	EIA/TIA-568A (RJ-45)	Shield Ground L=50cm	GEN/RJ45

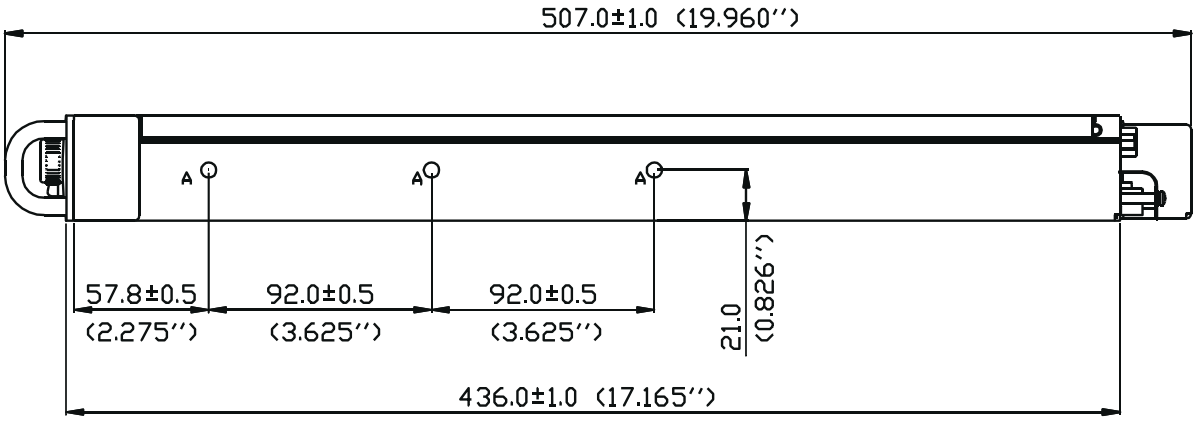
* Included with power supply

Outline Drawing Genesys™ 750W/1500W Units









NOTE

1. Bus bars for 6v to 60v models (shown)
   Wire clamp connector for 80V 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

По вопросам продаж и поддержки обращайтесь:

Архангельск (8182)63-90-72
Брянск (4832)59-03-52
Вологда (8172)26-41-59
Иваново (4932)77-34-06
Калининград (4012)72-03-81
Киров (8332)68-02-04
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Нижний Новгород (831)429-08-12
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Астана +7(7172)727-132
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Ярославль (4852)69-52-93

Эл. почта: adm@nt-rt.ru || Сайт: http://lambda.nt-rt.ru/