# **Genesys**<sup>TM</sup>

Programmable DC Power Supplies 3.3 kW in 2U
Built in RS-232 & RS-485 Interface
Parallel Current Summing
Optional Interfaces: USB

[XI] Compliant 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, 1ø (230VAC) & 3ø (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<sup>™</sup> and LabWindows<sup>™</sup> drivers
- Five Year Warranty

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





## **Applications**

**Genesys**<sup>TM</sup> 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.

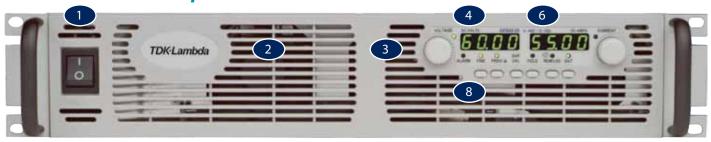
Aerospace & Satellite Testing systems use the complete Genesys™ Family: 1U 750W Half Rack, 1U 750W or 1500W Full-Rack, 2U 3.3kW and 3U 10/15kW. All are identical in Front Panel, Rear Panel Analog and Digital Interface Commands. A wide variety of outputs allows testing of many different devices.

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.
- 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 & 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.

Genesus ™ 3 3kW Specifications

.0 MODEL  1.Rated output voltage(*1)	GEN V	8-400 8	10-330	15-220 15	20-165	30-110 30	40-85 40	60-55 60	80-42 80	100-33	150-22 150	300-11 300	600-
2.Rated Output Current(*2)	A	400	330	220	165	110	85	55	42	33	22	11	5.5
3.Rated Output Current( 2)	ŵ	3200	3300	3300	3300	3300	3400	3300	3360	3300	3300	3300	330
and output i ono.		0200	0000	0000	0000	0000	0100	0000	0000	0000	0000	0000	
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)		6.2	6.5	7.25	8	9.5	11	14	17	20	27.5	50	95
B.Ripple and noise p-p 20MHz (*8)	mV	60	60	60	60	60	60	60	80	100	100	300	50
I.Ripple r.m.s 5Hz~1MHz	mV	8	8	8	8	8	8	8	8	8	25	100	12
5.Remote sense compensation/wire	V	2	2	2	2	5	5	5	5	5	5	5	5
S.Temp. coefficient	PPM/°C	100PPM/	roted Val	t over Ohre	intorval fo	llowing 20	minutoo wa	rm un Co	notant line	load & ten			
7.Temp. stability	1			rated outp						, ioau & teri	ip.		
3.Warm-up drift	0	Less mar	1 0.05% 01			ZIIIV OVEI	30 minutes	lollowing	ower On.	150			1 05
0.Up-prog. response time, 0~Vo Rated (*9)  10.Down-prog response time Full-load (*9)	mS mC	20		100	30		160			150	00		25 50
No-load (*10)	mS mS	500	600	700	800	900	1000	1100	1200	1500	2000	3500	400
1.Transient response time	mS									0-90% of ra			400
1. Transient response time	""	current. C	output set-	point: 10-10	00%, local	sense.			•		ateu output	ı	
		Less than	1mSec fo	r models u	p to and in	cluding 100	V. 2msec	for models	above 10	0V			
2 CONSTANT CURRENT MODE													
.Max.line regulation (0.01% of rated lo+ 2mA)(*6)	mA	42	35	24	18.5	13	10.5	7.5	6.2	5.3	4.2	3.1	2.
.Max.load regulation (0.02% of rated lo+5mA)(*11)	mA	85	71	49	38	27	22	16	13.4	11.6	9.4	7.2	6.
Ripple r.m.s 5Hz~1MHz . (*12)	mA	1300	1200	880	660	300	200	100	80	70	60	20	1
Load regulation thermal drift	DDM			rated outpu					ange.				
.Temp. coefficient	PPM/°C			ted output					-44 "	1101			
.Temp. stability	1									load & terr	perature.		
.Warm-up drift				ess than 0.5							٠		
		30V~600	v models:	Less than	U.25% of r	ated outpu	t current o	ver 30 mini	ites follow	ing power (	JN.		
.3 PROTECTIVE FUNCTIONS													
. OCP		-	Constant (										
. OCP Foldback				vhen power									
. OVP type		+								unication p			1.
OVP trip point			0.5~12V	1~18V	1~24V	2~36V	2~44V	5~66V	5~88V	5~110V	5~165V	5~330V	5~6
Output Under Voltage Limit				el or comm		ort. Preve	nts from ac	ijusting Voi	ut below lir	nit.			
. Over Temp. Protection		User sele	ectable , la	tched or no	ori-latched.								
4 ANALOG PROGRAMMING AND MONITORING													
.Vout Voltage Programming				~10V, user									
2.lout Voltage Programming (*13)				~10V, user									
3.Vout Resistor Programming				hm full sca									
.lout Resistor Programming (*13)			hm full sca					of rated I	out.				
5.On/Off control (rear panel)				ge: 0~0.6V/			user selec	table logic.					
Output Current monitor (*13)				curacy:±19									
7.Output Voltage monitor				curacy:±1%									
8.Power Supply OK signal				K, 0V-Fail				le accordent	Ο το Λ				
CV/CC Indicator				/) source: 1					uma.				
			Dry contact. Open:off , Short: on. Max. voltage at Enable/Disable in: 6V.  By electrical signal or Open/Short: 0~0.6V or short: Remote: 4~5V or open: Local										
		By electrical signal or Open/Short: 0~0.6V or short: Remote, 4~5V or open: Local.  Open collector, Local: Off, Remote: On. Maximum voltage: 30V, maximum sink current: 10mA.											
Local/Remote analog control								/ marden					
Local/Remote analog control							oltage: 30\	/, maximun	I SINK CUIT	ent: 10mA.			
Enable/Disable     Local/Remote analog control     Local/Remote analog control Indicator     FRONT PANEL							oltage: 30\	/, maximur	II SINK CUIT	ent: 10mA.			
Local/Remote analog control     Local/Remote analog control Indicator     FRONT PANEL		Open col	lector, Loc	al: Off, Ren	note: On. I parate end	Maximum v							
Local/Remote analog control     Local/Remote analog control Indicator     FRONT PANEL		Open col Vout/ lou OVP/UVI	lector, Loc t manual a manual a	al: Off, Ren	note: On. I parate enc olt. Adjust e	Maximum voders (coa	rse and fin	e adjustme	nt selectat	ole).			
Local/Remote analog control     Local/Remote analog control Indicator     FRONT PANEL		Vout/ Iou OVP/UVI On/Off, C	t manual a manual a manual a	cal: Off, Ren djust by se adjust by Vo off, Re-start	parate enc olt. Adjust e modes (au	oders (coa ncoder. uto, safe), F	rse and fin	e adjustme	nt selectal		ntrol.		
I1. Local/Remote analog control I2. Local/Remote analog control Indicator		Vout/ lour OVP/UVI On/Off, C Address	t manual a manual a utput on/c	ad: Off, Rending of the control of t	parate end bit. Adjust e modes (au for current)	oders (coa encoder. uto, safe), F adjust enc	rse and fin	e adjustme	nt selectal	ole).	ntrol.		
Local/Remote analog control     Local/Remote analog control Indicator     FRONT PANEL		Vout/ lou OVP/UVI On/Off, C Address Re-start	t manual a manual a output on/o selection b	ad: Off, Rer adjust by se adjust by Vo off, Re-start by Voltage (	parate end olt. Adjust e modes (au for current) start, safe r	oders (coa ncoder. uto, safe), F adjust enc node).	rse and fin Foldback co	e adjustme	nt selectal	ole).	ntrol.		
Local/Remote analog control     Local/Remote analog control Indicator     FRONT PANEL     Control functions		Vout/ lou OVP/UVI On/Off, C Address Re-start I Baud rate	t manual a manual a mutput on/c selection b modes (au	djust by se djust by Vo off, Re-start by Voltage ( tomatic res : 1200,240	parate encolt. Adjust emodes (au corrent) start, safe r 0,4800,960	oders (coa encoder. uto, safe), F adjust enc node). 00 and 19,2	rse and fin Foldback co oder. Num	e adjustme ontrol (CV t ber of addr	nt selectal	ole).	ntrol.		
Local/Remote analog control     Local/Remote analog control Indicator     FRONT PANEL     .Control functions		Vout/ lour OVP/UVI On/Off, C Address Re-start Baud rate Voltage:	t manual a manual a manual a putput on/o selection b modes (au e selection 4 digits, A	djust by se djust by Vo off, Re-start by Voltage ( tomatic res : 1200,240 ccuracy: 0.	parate encolt. Adjust e modes (au cor current) start, safe r 0,4800,960 5% of rate	oders (coa encoder. uto, safe), F adjust enconde). 00 and 19,2 d output Vo	rse and fin Foldback co oder. Num 200. Itage ±1 co	e adjustme ontrol (CV t ber of addr ount.	nt selectal	ole).	ntrol.		
Local/Remote analog control     Local/Remote analog control Indicator     FRONT PANEL     Control functions  Display		Vout/ lour OVP/UVI On/Off, C Address Re-start Baud rate Voltage: Current:	t manual a manual a manual a butput on/o selection b modes (au e selection 4 digits, A 4 digits, A	djust by se djust by Vo off, Re-start by Voltage ( atomatic res : 1200,240 ccuracy: 0.5 ccuracy: 0.5	parate encolt. Adjust emodes (au corrent) start, safe routenes, safe routenes, safe routenes, safe routenes, safe rates, safe routenes, safe rates, sa	oders (coa encoder. uto, safe), F adjust enconde). 00 and 19,2 d output Vo	rse and fin Foldback co oder. Num 200. Iltage ±1 co rent ±1 co	e adjustme ontrol (CV t ber of addr ount.	nt selectal o CC), Go esses:31.	to local co	ntrol.		
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Local/Remote analog control     Local/Remote analog control Indicator     FRONT PANEL     Control functions      Display	nal GPII	Vout/ lour OVP/UVI On/Off, C Address Re-start Baud rate Voltage: Voltage,	t manual a manual a manual a butput on/o selection b modes (au e selection 4 digits, A 4 digits, A Current, Al	djust by se djust by Vo off, Re-start by Voltage ( atomatic res : 1200,240 ccuracy: 0.5 ccuracy: 0.5	parate encolt. Adjust emodes (au corrent) start, safe routenes, safe routenes, safe routenes, safe routenes, safe rates, safe routenes, safe rates, sa	oders (coa encoder. uto, safe), F adjust enconde). 00 and 19,2 d output Vo	rse and fin Foldback co oder. Num 200. Iltage ±1 co rent ±1 co	e adjustme ontrol (CV t ber of addr ount.	nt selectal o CC), Go esses:31.	to local co	ntrol.		
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- \*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.
- $^{\star}9$ : 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. For other models, the ripple is measured at 10~100% of rated output voltage and rated
- \*13: The Constant Current programming readback and monitoring accuracy does not include the warm-up and Load regulation thermal drift.

# General Specifications Genesys™ 3.3kW

				_										
2.1 INPUT CHARA	CTERISTICS	GEN	8-400	10-330	15-220	20-165	30-110	40-85	60-55	80-42	100-33	150-22	300-11	600-5.5
1. Input voltage/fre	eq. (*3)		Single Pl	nase,230V ı	models: 17	0~265Vac,	47~63Hz							
i -		VAC	3-Phase,	208V mode	els: 170~26	65Vac, 47~	63Hz							
			3-Phase,	400V mode	els: 342~46	60Vac, 47~	63Hz							
2. Maximum	Single Phase,230V models:		24	24	24	23	24	23	23	23.5	23	23	23	23
Input current at 100% load	3-Phase, 208V models:	A	14.5	14.5	14.5	14.5	14	14.5	13.6	14	13.7	13.7	13.8	13.9
at 100 /6 10au	3-Phase, 400V models:		7.2	7.2	7.2	7.2	7	7.2	6.8	7	6.8	6.8	6.9	7
<ol><li>Power Factor (T</li></ol>	īyp)		Single Ph	ase models	s: 0.99@23	0Vac, rated	d output pov	ver. 3-Phas	se models:	0.94@208	/380Vac, ra	ted output p	ower.	
4. Efficiency (*4)		%	82	84	84	86	86	88	88	88	88	88	88	87
5. Inrush Current (	^	Single-Pl	Single-Phase and 3-Phase 208V models: Less than 50A											
		A	3-Phase	-Phase 400V models: Less than 20A										
6. Hold-up time (Ty	yp)	mS	10mSec	nSec for Single-Phase and 3-phase 208V models, 6mSec for 3-Phase 400V models. Rated output power.										

#### 2.2 POWER SUPPLY CONFIGURATION

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. 600V Max to Chassis ground

#### 2.3 ENVIRONMENTAL CONDITIONS

Operating temp	0~50 °C, 100% load.
2. Storage temp	-30~85°C
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-disch8KV, contact disch4KV
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:						
	40 <vout<400v: analog="" are="" hazardous,="" ieee="" is="" isolated="" output="" selv.<="" td=""></vout<400v:>					
	400 <vout<600v:output analog="" are="" hazardous,="" ieee="" is="" isolated="" not="" selv.<="" td=""></vout<600v:output>					
2.Withstand voltage	Vout::40V models :Input-Outputs (SELV): 4242VDC 1min, Input-Ground: 2828VDC 1min.					
	40 <vout<100v 1min,="" 1min.<="" 2600vdc="" 4242vdc="" input-haz.="" input-selv:="" models:="" output:="" td=""></vout<100v>					
	Hazardous OutputSELV: 1900VDC 1min, Hazardous Output-Ground:1200VDC 1min. Input-Ground: 2828VDC 1min.					
	100 <vout<600v 1min,="" 1min.<="" 4000vdc="" 4242vdc="" input-haz.="" input-selv:="" models:="" output:="" td=""></vout<600v>					
	Hazardous OutputSELV: 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

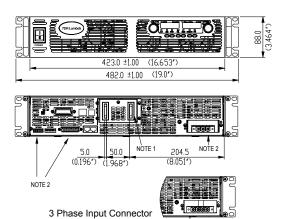
2.6 MECHANICAL CONSTRUCTION			
1. Cooling	Forced air flow: from front to rear. No ventilation holes at the top or bottom of the chassis; Variable fan speed.		
2. Dimensions (WxHxD)	V: 16.65in, H: 3.46in, D: 17.42in (excluding connectors, encoders, handles, etc.)		
3. Weight	13 kg.		
4. AC Input connector (with Protective Cover)	Single Phase, 230V models, Power 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		

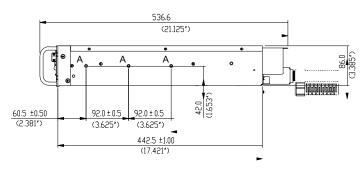
#### 2.7 RELIABILITY SPECS

1. Warranty	5 years.

All specifications subject to change without notice.

# Outline Drawing Genesys™ 3.3kW 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
- 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

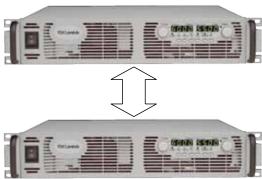
Up to two units may be connected in series to increase the output voltage or to provide bipolar output. (Max 600V to Chassis Ground).

## 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**

- 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**

• 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 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

P/N: IEMD

P/N: MD

P/N: IS510

P/N: IS420

## Power Supply Identification / Accessories How to order

**GEN** 400 **Factory Options** AC Input options Series Output Output Option: : IEMD 1P230 (Single Phase 230VAC) Name Voltage Current MD 3P208 (Three Phase 208VAC) (0~8V)(0~400A) **IS510** 3P400 (Three Phase 400VAC) IS420 LAN

USB

#### Models 3.3kW

	Output	Output	Output
Model	Voltage	Current	Power
	VDC	(A)	(W)
GEN 8-400	0~8V	0~400	3200
GEN 10-330	0~10V	0~330	3300
GEN 15-220	0~15V	0~220	3300
GEN 20-165	0~20V	0~165	3300
GEN 30-110	0~30V	0~110	3300
GEN 40-85	0~40V	0~85	3400

ſ		Output	Output	Output
1	Model	Voltage	Current	Power
1		VDC	(A)	(W)
	GEN 60-55	0~60V	0~55	3300
	GEN 80-42	0~80V	0~42	3360
	GEN 100-33	0~100V	0~33	3300
	GEN 150-22	0~150V	0~22	3300
	GEN 300-11	0~300V	0~11	3300
	GEN 600-5.5	0~600V	0~5.5	3300

P/N **Factory options** 

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 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 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<sup>™</sup> power supplies.

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

<sup>\*</sup> Included with power supply



Also Available Genesys™ 1U Half Rack 750W *1U 750W/1500W* 2U 5kW 3U 10/15kW

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Largest Supplier of Electrical and Electronic Components

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