# **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
Optional Interfaces: USB
IMI 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™** 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.
- 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.

Genesys TM 1.0 MODEL		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
1.Rated output voltage(*1)		V	8	10	15	20	30	40	60	80	100	150	300	600
2.Rated Output Current(*2)		A	400	330	220	165	110	85	55	42	33	22	11	5.5
3.Rated Output Power		W	3200	3300	3300	3300	3300	3400	3300	3360	3300	3300	3300	3300
1.1 CONSTANT VOLTAGE MODE	\ [		1											
1.Max.line regulation ( 0.01% of r	ated Vo+ 2mV )(*6)	mV	2.8	3	3.5	4	5	6	8	10	12	17	32	62
2.Max load regulation ( 0.015% o	f 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	3)	mV	60	60	60	60	60	60	60	80	100	100	300	500
4.Ripple r.m.s 5Hz~1MHz		mV	8	8	8	8	8	8	8	8	8	25	100	12
5.Remote sense compensation/w	rire	V PPM/°C	2 100PPM/	2	2	2	5	5	5	5	5	5	5	5
6.Temp. coefficient 7.Temp. stability		PPIVI/°C			t over 8hrs	interval fol	lowing 30 i	minutae w	rm-un Co	netant lina	load & ten	nn		
8.Warm-up drift					rated outpu						, load & ten	ip.		
9.Up-prog. response time, 0~Vo F	Rated (*9)	mS	Loos trial	1 0.00 /0 01		0	21111 0 0 0 1	00 1111110100	, tollowing i	JOWEI OII.	150			25
10.Down-prog response time	Full-load (*9)	mS	20		100	Ī		160		l		00		50
	No-load (*10)	mS	500	600	700	800	900	1000	1100	1200	1500	2000	3500	400
11.Transient response time		mS	Time for o	output volta	age to recov	er within C	).5% of its	rated outpo	ut for a load	change 1	0-90% of ra	ated output		
			current. C	output set-p	point: 10-10 r models up	0%, local s	sense. Suding 100	1\/ 2meac	for models	ahova 10	0\/			
	-		LOSS triain	111106610	i illouels u	o to and in	Juding 100	74. 2111366	TOT THOUGHS	above 10	O V			
1.2 CONSTANT CURRENT MODE		m^	1 42	35	24	10 =	12	10 5	7 =	6.2	F 2	4.2	2 4	2.
1.Max.line regulation (0.01% of ra 2.Max.load regulation (0.02% of ra		mA mA	42 85	35 71	24 49	18.5 38	13 27	10.5 22	7.5 16	6.2 13.4	5.3 11.6	9.4	7.2	6.
3.Ripple r.m.s 5Hz~1MHz . (*12)		mA	1300	1200	880	660	300	200	100	80	70	60	20	1
4.Load regulation thermal drift		шА			ated output						, 0		20	
5.Temp. coefficient		PPM/°C			ted output					3.				
6.Temp. stability					over 8hrs.					stant line,	load & tem	perature.		
7.Warm-up drift			8V~20V r	models: Le	ss than 0.5	% of rated	output cui	rrent over 3	30 minutes	following p	oower On.			
			30V~600	V models:	Less than	0.25% of ra	ated outpu	t current o	ver 30 minu	utes follow	ing power (	On.		
1.3 PROTECTIVE FUNCTIONS														
1. OCP			0~105%	Constant C	Current									
2. OCP Foldback			Output sh	nut down w	hen power	supply cha	ange from	CV to CC.	User selec	table.				
3. OVP type					manual res									
4. OVP trip point				0.5~12V		1~24V			5~66V			5~165V	5~330V	5~6
5. Output Under Voltage Limit					el or comm		ort. Preve	nts from a	djusting Vo	ut below lir	nit.			
6. Over Temp. Protection			User sele	ectable, la	tched or no	n-latched.								
I.4 ANALOG PROGRAMMING AI	ND MONITORING													
1.Vout Voltage Programming					~10V, user									
2.lout Voltage Programming (*13)	)				~10V, user									
3. Vout Resistor Programming	N				hm full scal									
<ul><li>4.lout Resistor Programming (*13</li><li>5.On/Off control (rear panel)</li></ul>	)				hm full scal je: 0~0.6V/2					o or rated i	out.			
6.Output Current monitor (*13)					curacy:±1%			user serec	table logic.					
7.Output Voltage monitor					curacy:±1%									
8.Power Supply OK signal					K, 0V-Fail			ance.						
9. CV/CC Indicator					) source: 1				k current: 1	I0mA.				
10. Enable/Disable			Dry conta	act. Open:c	off , Short: c	n. Max. vo	ltage at Er	nable/Disal	ole in: 6V.					
11. Local/Remote analog control					or Open/Sh									
12. Local/Remote analog control	Indicator		Open col	lector, Loc	al: Off, Ren	note: On. N	/laximum v	oltage: 30	/, maximun	n sink curr	ent: 10mA.			
.5 FRONT PANEL														
1.Control functions			Vout/ lou	t manual a	djust by sej	parate enc	oders (coa	rse and fin	e adjustme	nt selectal	ole).			
-					djust by Vo				,					
			On/Off, C	Output on/o	ff, Re-start	modes (au	ıto, safe), F				to local co	ntrol.		
			Address	selection b	y Voltage (	or current)	adjust enc	oder. Num	ber of addr	esses:31.				
					tomatic res									
					: 1200,2400									
2.Display					ccuracy: 0.5									
2 Indications					curacy: 0.5					Donall -	ok C\/CC			
3.Indications		165:			arm, Fine, I	rieview, F	DIUDACK, LO	ocai, Outpl	it On, Fron	ranei Lo	UK, UVUU.			
I.6 Interface RS232&RS	5485 or Optiona	AI GPIE	8 Interfa	10 10	15	20	30	40	60	80	100	150	300	60
1. Remote Voltage Programming	(16 bit)	٧	0	10	13	20	50	70	00	50	100	130	300	
Resolution (0.012% of Vo Rated)	, ,	mV	0.96	1.2	1.8	2.40	3.60	4.80	7.2	9.6	12	18	36	7.
Accuracy (0.05%Vo Rated+0.05%	of Vo Actual Output)	mV	8	10	15	20	30	40	60	80	100	150	300	60
• •														
2. Remote Current Programming	g (16 bit)													
Resolution (0.012% of lo Rated)	f la Astrol Oute de fina	mA	48	39.6	26.4	19.8	13.2	10.2	6.6	5.0	4.0	2.6	1.3	0.
Accuracy (0.2% of lo Rated+0.1% of	i io Actual Output) (*13)	mA	1200	990	660	495	330	255	165	126	99	66	33	16
3. Readback Voltage														
Resolution (0.012% of Vo Rated)		mV	0.96	1.2	1.8	2.40	3.60	4.80	7.2	9.6	12	18	36	7
Accuracy (0.1%Vo Rated+0.1% of	Vo Actual Output)	mV	16	20	30	40	60	80	120	160	200	300	600	12
4 Boodhool: Correct														
4. Readback Current Resolution (0.012% of lo Rated )		mA	48	39.6	26.4	19.8	13.2	10.2	6.6	5.0	4.0	2.6	1.3	0.
		111/7	1600	1220	990	660	110.2	240	220	169	122	2.0	1.3	2,

- \*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 single phase and 3-Phase 208V models, and 380~415Vac (50/60Hz) for 3-Phase 400V models.

1600

80

m۷

mV

1320

10

100

880

15

150

660

200

440

30

300

- \*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.

Accuracy (0.3% of lo Rated+0.1% of lo Actual Output) (\*13) mA

5. OVP/UVL Programming Resolution (0.1% of Vo Rated)

Accuracy (1% of Vo Rated)

- \*6: Single-Phase and 3-Phase 208V models: 170~265Vac, constant load. 3-Phase 400V models: 342~460Vac, constant load.
- 800 \*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

168

80

132

100

1000

88

150

1500

44

300

3000

600

6000

- $^{\star}9$ : 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.

340

40

400

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

220

60

600

- \*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 output current.
- \*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 Ph	ase,230V r	nodels: 17	0~265Vac,	47~63Hz							
			3-Phase,	208V mode	els: 170~26	65Vac, 47~	63Hz							
			3-Phase,	3-Phase, 400V models: 342~460Vac, 47~63Hz										
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:	Α	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>	Ţyp)		Single Pha	ase models	: 0.99@23	0Vac, rated	l output por	wer. 3-Phas	se models:	0.94@208	/380Vac, rat	ted output p	ower.	
4. Efficiency (*4)		%	82	84	84	86	86	88	88	88	88	88	88	87
5. Inrush Current (	5. Inrush Current (*5)		Single-Ph	ase and 3-	Phase 208	V models:	Less than 5	50A						
3-Phase 400V mod					ls: Less the	an 20A								
6. Hold-up time (Ty	yp)	mS 10mSec for Single-Phase and 3-phase 208V models, 6mSec for 3-Phase 400V models. Rated output power.												

#### 2.2 POWER SUPPLY CONFIGURATION

1. Parallel Operation	Up to 4 identical units in master/slave mode with parallel current summing (Advanced Parallel)
2. Series Operation	Up to 2 identical units. with external diodes. 600V Max to Chassis ground

## 2.3 ENVIRONMENTAL CONDITIONS

Operating temp	0~50 °C, 100% load.
2. Storage temp	-30~85°C
3. Operating humidity	20-90% RH (non-condensing).
4. Storage humidity	10-95% RH (non-condensing).
5. Vibration	MIL-810F, method 514.5, The EUT is fixed to the vibrating surface.
6. Shock	Less than 20G, half sine, 11mSec. Unit is unpacked.
7. Altitude	Operating: 10000ft (3000m), Derate output current by 2%/100m above 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

IEC1000-4-2. Air-disch8KV, contact disch4KV
IEC1000-4-4. 2KV
IEC1000-4-5. 1KV line to line, 2KV line to ground
IEC1000-4-6, 3V
IEC1000-4-3, 3V/m
EN61000-4-8, 1A/m
EN61000-4-11
EN55022A, FCC part 15-A, VCCI-A.
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: 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

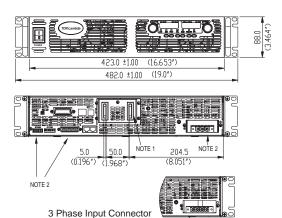
2.0 MEGHANICAE CONCINCOTION	
1. Cooling	Forced air flow: from front to rear. No ventilation holes at the top or bottom of the chassis; Variable fan speed.
2. Dimensions (WxHxD)	W: 16.65in, H: 3.46in, D: 17.42in (excluding connectors, encoders, handles, etc.)
3. Weight	13 kg.
4. AC Input connector (with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

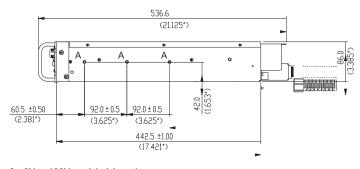
## 2.7 RELIABILITY SPECS

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
- 3. Chassis slides mounting holes #10-32 marked "A" GENERAL DEVICES P/N: C-300-S-116 or equivalent

## Genesys<sup>™</sup> 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

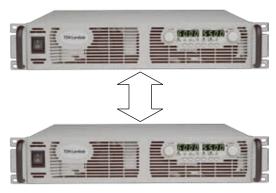
Up to two units may be connected in series to increase the output voltage or to provide bipolar output. (Max 600V to Chassis Ground).

## 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.







P/N: IEMD

P/N: MD

P/N: IS510

P/N: IS420

## 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 **LX** 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** 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

Γ		Output	Output	Output
1	Model	Voltage	Current	Power
1		VDC	(A)	(W)
ſ	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

**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 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

## TDK·Lambda

## **GLOBAL NETWORK**

#### **USA**

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