New From TDK-Lambda 2400W in 1U

Genesys

Programmable DC Power Supplies 2.4kW in 1U Built in RS-232 & RS-485 Interface Advanced Parallel Standard **New: Auxiliary Outputs 5V & 15V** New: RoHS Compliant

> **Optional Interfaces:** IEEE488.2 SCPI (GPIB) **Isolated Analog Programming** LXI Compliant LAN



Genesys™ Family

GEN H 750W Half Rack

GEN 1U 750/1500W/2400W Full Rack

GEN 2U 3.3/5kW

GEN 3U 10/15kW

TDK·Lambda

www.us.tdk-lambda.com/hp

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:

- New: Auxiliary Outputs, 5V, 0.2A; 15V, 0.2A For Increased System Control Functionality
- **New: RoHS Compliant**
- 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
- 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

LX Compliant LAN **USB** Interface

LabView and LabWindows™ drivers

Five Year Warranty





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 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/1500W/2400W 2U 3.3kW/5kW, 3U 10/15kW 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: 230VAC Single Phase, 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, LAN or USB Interface.
- 10. Auxiliary Output Voltage Connector. Phoenix P/N IMC1.5/7-ST-3.81

Genesys™ 2.4kW Specifications

1 Poted Output voltage(*1)	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) 2.Rated Output Current(*2)	V A	300	10 240	16 150	20 120	30 80	40 60	60 40	80 30	100 24	150 16	300	600
Bated Output Power	W	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400
•	1 44		۷-100	۷,400	2700	2700	<u> </u>	۷-700	2400	2+00	<u></u>	2700	2400
.1 CONSTANT VOLTAGE MODE	1	1 00		0.0						- 10	- 17	- 00	
.Max.line regulation (0.01% of rated Vo+2mV)(*6)	mV	2.8	3	3.6	4	5	6	8	10	12	17	32	62
2.Max load regulation (0.015% of rated Vo+5mV)(*7)	mV mV	6.2	6.5	7.4 60	8 60	9.5	60	14 60	17 80	20 80	27.5	50 200	95
3.Ripple and noise p-p 20MHz (*8)	mV mV	8	8	8	8	8	8	8	80	80	25	50	300 75
4.Ripple r.m.s 5Hz~1MHz 5.Remote sense compensation/wire	V	2	2	2	2	5	<u>8</u>	5	5	5	<u>25</u>	50	5
6. Temperature coefficient		100PPM/°C						3					- 3
7.Temperature stability	FFIVI/ C	0.05% of ra						Constant	line load &	tomp			
8.Warm-up drift							ninutes follo			temp.			
9.Up-prog. response time, 0~Vo Rated (*9)	mS	30	7.03 /6 OI IA	ieu output v	50	/ Over 30 II	ili lutes iolio	70		30	100	150	200
10.Down-prog response time Full-load (*9)	mS	20		50	30		80	70		20	200	250	300
No-load (*10)	mS	500		600		900	1000	1100	1200	1500	2500	3500	4000
11.Transient response time	mS		tput voltage		within 0.5%		d output for						
							to and include						
								<u> </u>					
1.2 CONSTANT CURRENT MODE													
1.Max.line regulation (0.01% of lo rated+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 lo rated+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	1200	960	600	480	220	120	70	50	40	30	15	7
4.Temperature coefficient	PPM/°C	100PPM/°C											
5.Temperature stability	4	0.05% of ra	ted lout ov	er 8hrs. inte	rval tollowin	g 30minute	es warm-up.	Constant I	ine, load &	temperature	9.		
6.Warm-up drift	1	8V~20V mc											
	1	1900×0000	mouels: Le	ss mdn ±0.	LJ% OI IATE	ս օսւբսւ си	mem over 3	o minutes I	ollowing po	WEI OII.			
1.3 PROTECTIVE FUNCTIONS													
1. OCP		0~105% Co											
2. OCP Foldback		Output shut											
3. OVP type		Inverter shu											
4. OVP trip point		0.5~10V		1~19V	1~24V	2~36V	2~44V	5~66V	5~88V	5~110V	5~165V	5~330V	5~660
5. Output Under Voltage Limit		Preset by fr				Prevents fro	om adjusting	g Vout belo	w limit.				
6. Over Temperature Protection		User select	able , latch	ed or non-la	tched.								
1.4 ANALOG PROGRAMMING AND MONITORING													
1.Vout Voltage Programming		0~100%, 0~	~5V or 0~10	OV, user sel	ect. Accurac	cy and linea	arity:±0.5%	of rated Vo	ut.				
2.lout Voltage Programming (*13)		0~100%, 0~											
3.Vout Resistor Programming		0~100%, 0~							ed Vout.				
4.lout Resistor Programming (*13)		0~100%, 0~											
5.On/Off control (rear panel)		By electrica											
6.Output Current monitor (*13)		0~5V or 0~											
7.Output Voltage monitor		0~5V or 0~											
8.Power Supply OK signal		TTL high (4											
9. CV/CC Indicator		Open Colle						0V, Maximu	ım sink cur	rent: 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. Open collector, Local: Off, Remote: On. Maximum voltage: 30V, maximum sink current: 10mA.											
12. Local/Remote analog control Indicator										mA.			
		•											
1.5 FRONT PANEL 1. Control functions	-	Vout/ lout m	nanual adiu	et hy canar	ate encodo	rs (coarse c	and fine adju	istment eal	ectable)				
		OVP/UVL n				•	and mie auji	JOHNSON SEI	ociable).				
		On/Off, Out					ldhack cont	rol (CV to C	C) Go to !	ocal control			
							. Number of			ocai cuitti0i	•		
		Re-start mo					vuiiiDEi Ul	uuui CooCo					
			,			,							
		IRaud rato a	OIGGUIUII. IZ	-∪∪,∠+∪∪,40									
2.Display		Baud rate s	ligits Accu	racv: 0.5%			+1 count						
2.Display		Voltage: 4 d			of rated out	put Voltage							
		Voltage: 4 d Current: 4 d	ligits, Accur	racy: 0.5% (of rated out of rated outp	put Voltage out current	±1 count.	Front Pane	Lock CV	CC.			
2.Display 3.Indications		Voltage: 4 d	ligits, Accur	racy: 0.5% (of rated out of rated outp	put Voltage out current	±1 count.	Front Pane	l Lock, CV/	CC.			
3.Indications 1.6 Interface RS-232&RS-485 or Optional GPIB / LAN	Interface	Voltage: 4 d Current: 4 d Voltage, Cu	ligits, Accur	racy: 0.5% on, Fine, Pre	of rated out of rated outp view, Foldba	put Voltage out current ack, Local,	±1 count. Output On,						
3.Indications 1.6 Interface RS-232&RS-485 or Optional GPIB / LAN Model	Interface V	Voltage: 4 d Current: 4 d	ligits, Accur	racy: 0.5% (of rated out of rated outp	put Voltage out current	±1 count.	Front Pane	l Lock, CV/	CC.	150	300	600
3.Indications 1.6 Interface RS-232&RS-485 or Optional GPIB / LAN Model 1. Remote Voltage Programming (16 bit)	V	Voltage: 4 d Current: 4 d Voltage, Cu	ligits, Accur	racy: 0.5% on, Fine, Pre	of rated out of rated out view, Foldba 20	put Voltage out current ack, Local, 30	±1 count. Output On,	60	80	100			
3.Indications 1.6 Interface RS-232&RS-485 or Optional GPIB / LAN Model 1. Remote Voltage Programming (16 bit) Resolution (0.012% of Vo Rated)	V mV	Voltage: 4 d Current: 4 d Voltage, Cu	digits, Accur irrent, Alarr 10	racy: 0.5% (n, Fine, Pre	of rated out of rated out view, Foldba 20 2.4	put Voltage out current ack, Local, 30 3.6	±1 count. Output On, 40 4.8	60 7.2	80 9.6	100	18	36	72
3.Indications 1.6 Interface RS-232&RS-485 or Optional GPIB / LAN Model	V	Voltage: 4 d Current: 4 d Voltage, Cu	ligits, Accur	racy: 0.5% on, Fine, Pre	of rated out of rated out view, Foldba 20	put Voltage out current ack, Local, 30	±1 count. Output On,	60	80	100			
3.Indications 1.6 Interface RS-232&RS-485 or Optional GPIB / LAN Model 1. Remote Voltage Programming (16 bit) Resolution (0.012% of Vo Rated) Accuracy (0.05%Vo Rated+0.05% of Vo Actual Output)	V mV	Voltage: 4 d Current: 4 d Voltage, Cu	digits, Accur irrent, Alarr 10	racy: 0.5% (n, Fine, Pre 16	of rated out of rated out view, Foldba 20 2.4	put Voltage out current ack, Local, 30 3.6	±1 count. Output On, 40 4.8	60 7.2	80 9.6	100	18	36	72
B.Indications 1.6 Interface RS-232&RS-485 or Optional GPIB / LAN Model 1. Remote Voltage Programming (16 bit) Resolution (0.012% of Vo Rated) Accuracy (0.05%Vo Rated+0.05% of Vo Actual Output) 2. Remote Current Programming (16 bit)	V mV	Voltage: 4 d Current: 4 d Voltage, Cu	digits, Accur irrent, Alarr 10	racy: 0.5% (n, Fine, Pre 16	of rated out of rated out view, Foldba 20 2.4	put Voltage out current ack, Local, 30 3.6	±1 count. Output On, 40 4.8	60 7.2	80 9.6	100	18	36	72
B.Indications 1.6 Interface RS-232&RS-485 or Optional GPIB / LAN Model 1. Remote Voltage Programming (16 bit) Resolution (0.012% of Vo Rated) Accuracy (0.05%Vo Rated+0.05% of Vo Actual Output) 2. Remote Current Programming (16 bit) Resolution (0.012% of lo Rated)	MV mV	Voltage: 4 d Current: 4 d Voltage, Cu 8 0.96	digits, Accur irrent, Alarn 10 1.2 10	16 1.92	of rated out of rated outpriew, Foldbare 20 2.4 20	put Voltage put current ack, Local, 30 3.6 30	±1 count. Output On, 40 4.8 40	60 7.2 60	9.6 80	100 12 100	18 150	36 300	72 600
B.Indications .6 Interface RS-232&RS-485 or Optional GPIB / LAN Model .8 Remote Voltage Programming (16 bit) Resolution (0.012% of Vo Rated) Accuracy (0.05%Vo Rated+0.05% of Vo Actual Output) 2. Remote Current Programming (16 bit) Resolution (0.012% of Io Rated) Accuracy (0.2%Io Rated+0.1% of Io Actual Output) (*13)	V mV mV	Voltage: 4 d Current: 4 d Voltage, Cu 8 0.96 8	10 1.2 10 28.8	16 1.92 18	of rated out of rated outpriew, Foldbare 20 2.4 20	put Voltage out current ack, Local, 30 3.6 30 9.6	±1 count. Output On, 40 4.8 40 7.2	60 7.2 60	9.6 80 3.6	100 12 100 2.88	18 150 1.92	36 300 0.96	72 600 0.48
B.Indications 1.6 Interface RS-232&RS-485 or Optional GPIB / LAN Model 1. Remote Voltage Programming (16 bit) Resolution (0.012% of Vo Rated) Accuracy (0.05%Vo Rated+0.05% of Vo Actual Output) 2. Remote Current Programming (16 bit) Resolution (0.012% of Io Rated) Accuracy (0.2%Io Rated+0.1% of Io Actual Output) (*13) 3. Readback Voltage	MV mV mA mA	Voltage: 4 d Current: 4 d Voltage, Cu	10 1.2 10 28.8 720	racy: 0.5% on, Fine, President 16	of rated out of rated out view, Foldba 20 2.4 20 14.4 360	put Voltage put current ack, Local, 30 3.6 30 9.6 240	±1 count. Output On, 40 4.8 40 7.2 180	60 7.2 60 4.8 120	9.6 80 3.6 90	100 12 100 2.88 72	18 150 1.92 48	36 300 0.96 24	72 600 0.48 12
3.Indications 1.6 Interface RS-232&RS-485 or Optional GPIB / LAN Model 1. Remote Voltage Programming (16 bit) Resolution (0.012% of Vo Rated) Accuracy (0.05%Vo Rated+0.05% of Vo Actual Output) 2. Remote Current Programming (16 bit) Resolution (0.012% of Io Rated) Accuracy (0.2%Io Rated+0.1% of Io Actual Output) (*13) 3. Readback Voltage Resolution (0.012% of Vo Rated)	MV mV mA mA	Voltage: 4 d Current: 4 d Voltage, Cu 8 0.96 8 36 900	10 1.2 10 28.8 720	16 1.92 16 18 450	of rated out of rated out view, Foldba 20 2.4 20 14.4 360	put Voltage put voltage put current ack, Local, 30 3.6 30 9.6 240	±1 count. Output On, 40 4.8 40 7.2 180	60 7.2 60 4.8 120	9.6 80 3.6 90	100 12 100 2.88 72	18 150 1.92 48	36 300 0.96 24	72 600 0.48 12
3.Indications 1.6 Interface RS-232&RS-485 or Optional GPIB / LAN Model 1. Remote Voltage Programming (16 bit) Resolution (0.012% of Vo Rated) Accuracy (0.05%Vo Rated+0.05% of Vo Actual Output) 2. Remote Current Programming (16 bit) Resolution (0.012% of lo Rated) Accuracy (0.2%lo Rated+0.1% of lo Actual Output) (*13) 3. Readback Voltage Resolution (0.012% of Vo Rated) Accuracy (0.1%Vo Rated+0.1% of Vo Actual Output)	MV mV mA mA	Voltage: 4 d Current: 4 d Voltage, Cu	10 1.2 10 28.8 720	racy: 0.5% on, Fine, President 16	of rated out of rated out view, Foldba 20 2.4 20 14.4 360	put Voltage put current ack, Local, 30 3.6 30 9.6 240	±1 count. Output On, 40 4.8 40 7.2 180	60 7.2 60 4.8 120	9.6 80 3.6 90	100 12 100 2.88 72	18 150 1.92 48	36 300 0.96 24	72 600 0.48 12
3.Indications 1.6 Interface RS-232&RS-485 or Optional GPIB / LAN Model 1. Remote Voltage Programming (16 bit) Resolution (0.012% of Vo Rated) Accuracy (0.05%Vo Rated+0.05% of Vo Actual Output) 2. Remote Current Programming (16 bit) Resolution (0.012% of Io Rated) Accuracy (0.2%lo Rated+0.1% of Io Actual Output) (*13) 3. Readback Voltage Resolution (0.012% of Vo Rated) Accuracy (0.1%Vo Rated+0.1% of Vo Actual Output) 4. Readback Current	MV mV mA mA mV mV	Voltage: 4 d Current: 4 d Voltage, Cu 8 0.96 8 36 900 0.96 16	10 1.2 10 28.8 720 1.2 20	racy: 0.5% (n, Fine, Pre	of rated out of rated outpriew, Foldbare 20 2.4 20 14.4 360 2.4 40	put Voltage put current ack, Local, 30 3.6 30 9.6 240	±1 count. Output On, 40 4.8 40 7.2 180 4.8 80	60 7.2 60 4.8 120 7.2 120	9.6 80 3.6 90 9.6 160	100 12 100 2.88 72 12 200	18 150 1.92 48 18 300	36 300 0.96 24 36 600	72 600 0.48 12 72 1200
3.Indications 1.6 Interface RS-232&RS-485 or Optional GPIB / LAN Model 1. Remote Voltage Programming (16 bit) Resolution (0.012% of Vo Rated) Accuracy (0.05%Vo Rated+0.05% of Vo Actual Output) 2. Remote Current Programming (16 bit) Resolution (0.012% of Io Rated) Accuracy (0.2%lo Rated+0.1% of Io Actual Output) (*13) 3. Readback Voltage Resolution (0.012% of Vo Rated) Accuracy (0.1%Vo Rated+0.1% of Vo Actual Output) 4. Readback Current Resolution (0.012% of Io Rated)	V mV mV mA mA mA mV mV	Voltage: 4 d Current: 4 d Voltage, Cu 8 0.96 8 36 900 0.96 16	10 1.2 10 28.8 720 28.8 28.8	racy: 0.5% (n, Fine, Pre) 16 1.92 16 18 450 1.92 32	of rated out out of rated out of rated out of rated out of rated out out out of rated out out out of rated out out out out out of rated out out out out	put Voltage put current ack, Local, 30 3.6 30 9.6 240 3.6 60	±1 count. Output On, 40 4.8 40 7.2 180 4.8 80	7.2 60 4.8 120 7.2 120	9.6 80 3.6 90 9.6 160	100 12 100 2.88 72 12 200	18 150 1.92 48 18 300	36 300 0.96 24 36 600	72 600 0.48 12 72 1200
3.Indications 1.6 Interface RS-232&RS-485 or Optional GPIB / LAN Model 1. Remote Voltage Programming (16 bit) Resolution (0.012% of Vo Rated) Accuracy (0.05%Vo Rated+0.05% of Vo Actual Output) 2. Remote Current Programming (16 bit) Resolution (0.012% of Io Rated) Accuracy (0.2%lo Rated+0.1% of Io Actual Output) (*13) 3. Readback Voltage Resolution (0.012% of Vo Rated) Accuracy (0.1%Vo Rated+0.1% of Vo Actual Output) 4. Readback Current	V mV mV mA mA mA mV mV	Voltage: 4 d Current: 4 d Voltage, Cu 8 0.96 8 36 900 0.96 16	10 1.2 10 28.8 720 1.2 20	racy: 0.5% (n, Fine, Pre	of rated out of rated outpriew, Foldbare 20 2.4 20 14.4 360 2.4 40	put Voltage put current ack, Local, 30 3.6 30 9.6 240	±1 count. Output On, 40 4.8 40 7.2 180 4.8 80	60 7.2 60 4.8 120 7.2 120	9.6 80 3.6 90 9.6 160	100 12 100 2.88 72 12 200	18 150 1.92 48 18 300	36 300 0.96 24 36 600	72 600 0.48 12 72 1200
B.Indications 1.6 Interface RS-232&RS-485 or Optional GPIB / LAN Model 1. Remote Voltage Programming (16 bit) Resolution (0.012% of Vo Rated) Accuracy (0.05%Vo Rated+0.05% of Vo Actual Output) 2. Remote Current Programming (16 bit) Resolution (0.012% of Io Rated) Accuracy (0.2%Io Rated+0.1% of Io Actual Output) (*13) 3. Readback Voltage Resolution (0.012% of Vo Rated) Accuracy (0.1%Vo Rated+0.1% of Vo Actual Output) 4. Readback Current Resolution (0.012% of Io Rated)	V mV mV mA mA mA mV mV	Voltage: 4 d Current: 4 d Voltage, Cu 8 0.96 8 36 900 0.96 16	10 1.2 10 28.8 720 28.8 28.8	racy: 0.5% (n, Fine, Pre) 16 1.92 16 18 450 1.92 32	of rated out out of rated out of rated out of rated out of rated out out out of rated out out out of rated out out out out out of rated out out out out	put Voltage put current ack, Local, 30 3.6 30 9.6 240 3.6 60	±1 count. Output On, 40 4.8 40 7.2 180 4.8 80	7.2 60 4.8 120 7.2 120	9.6 80 3.6 90 9.6 160	100 12 100 2.88 72 12 200	18 150 1.92 48 18 300	36 300 0.96 24 36 600	72 600 0.48 12 72 1200
B.Indications 1.6 Interface RS-232&RS-485 or Optional GPIB / LAN Model 1. Remote Voltage Programming (16 bit) Resolution (0.012% of Vo Rated) Accuracy (0.05%Vo Rated+0.05% of Vo Actual Output) 2. Remote Current Programming (16 bit) Resolution (0.012% of Io Rated) Accuracy (0.2%Io Rated+0.1% of Io Actual Output) (*13) 3. Readback Voltage Resolution (0.012% of Vo Rated) Accuracy (0.1%Vo Rated+0.1% of Vo Actual Output) 4. Readback Current Resolution (0.012% of Io Rated) Accuracy (0.3% Io Rated+0.1% of Io Actual Output) Accuracy (0.3% Io Rated+0.1% of Io Actual Output) (*13)	V mV mV mA mA mA mV mV	Voltage: 4 d Current: 4 d Voltage, Cu 8 0.96 8 36 900 0.96 16	10 1.2 10 28.8 720 28.8 28.8	racy: 0.5% (n, Fine, Pre) 16 1.92 16 18 450 1.92 32	of rated out out of rated out of rated out of rated out of rated out out out of rated out out out of rated out out out out out of rated out out out out	put Voltage put current ack, Local, 30 3.6 30 9.6 240 3.6 60	±1 count. Output On, 40 4.8 40 7.2 180 4.8 80	7.2 60 4.8 120 7.2 120	9.6 80 3.6 90 9.6 160	100 12 100 2.88 72 12 200	18 150 1.92 48 18 300	36 300 0.96 24 36 600	72 600 0.48 12 72 1200

- Minimum voltage is guaranteed to maximum 0.2% of rated output voltage.
- Minimum current is guaranteed to maximum 0.4% of rated output current. 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.
- 3-Phase 208V models: At 208Vac input voltage, With rated output power.
- Not including EMI filter inrush current, less than 0.2mSec. 3-Phase 208V models: 170~265Vac, constant load.

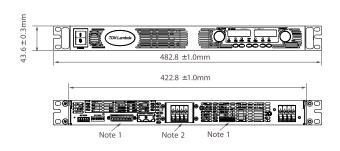
- From No-Load to Full-Load, constant input voltage. Maximum drop in Remote Sense.
 For 8V~300V models: Measured with JEITA RC-9131A (1:1) probe. For 600V model: Measured with 10:1 probe.
- *9: From 10% to 90% or 90% to 10% of Rated Output Voltage, with rated, resistive load.
- *10: From 90% to 10% of 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.

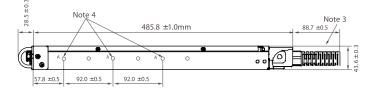
Genesys™ 2.4kW Specifications

1. Input voltage/freq. (*3) 2. Maximum Input current at 100% load 3-Phase, 230V 3-Phase, 208V 3-Phase, 208V 3-Phase, 208V 3-Phase, 208V 3-Phase, 208V 4-Efficiency (*4) 5. Inrush Current (5) 6. Hold up time (CV Mode) 2.2 AUXILIARY OUTPUT 1. 15V output 2.3 POWER SUPPLY CONFIGURATION 1. Parallel Operation 2. Series Operation 2. Series Operation 2. Storage temperature 2. Storage temperature 2. Storage temperature 3. Operating humidity 4. Storage humidity 5. Vibration 6. Shock 7. Altitude 8. RoHS Compliance 2.5 EMC 1. Applicable Standards: 2. ESD 3. Fast transients 4. Surge immunity 5. Conducted immunity 6. Radiated immunity 7. Magnetic field immunity 8. Voltage dips 9. Conducted emission 10. Radiated emission 10. Radiated emission 2.6 SAFETY 1. Applicable standards: 2. Withstand voltage 3. Insulation resistance 2.7 MECHANICAL CONSTRUCTION 1. Cooling	Models:	3-Phase, 20 17 10.5 Single Phas 84 Single-Phas 10mSec for 3 0.2A Max load,	08Vac mode 17 10.5 se models: (84 se and 3-Pt Single-Pha	els: 170~26 17 10.5 0.99@230\ 86 hase 208V ase and 3-p	265Vac, 47~ 65Vrms , 47~ 16.3 9.8 Vac, rated ou 86 models: Les	63Hz 16.3 9.8 utput power 88 s than 50A	88	16.3 9.8 nodels: 0.9	16.3 9.8	16.3	16.3	16.3	
current at 100% load 3.Pohase, 208\ 3.Power Factor (Typ) 4. Efficiency (*4) 5. Inrush Current (5) 6. Hold up time (CV Mode) 2.2 AUXILIARY OUTPUT 1. 15V output 2. 5V output 2. 3 POWER SUPPLY CONFIGURATION 1. Parallel Operation 2. Series Operation 2.4 ENVIRONMENTAL CONDITIONS 1. Operating temperature 2. Storage temperature 3. Operating humidity 4. Storage humidity 5. Vibration 5. Shock 7. Altitude 8. RoHS Compliance 2.5 EMC 1. Applicable Standards: 2. ESD 3. Fast transients 4. Surge immunity 5. Conducted immunity 5. Radiated immunity 6. Conducted emission 10. Radiated emission 10. Radiated emission 2.6 SAFETY 1. Applicable standards: 2. Withstand voltage 3. Insulation resistance 2.7 MECHANICAL CONSTRUCTION	Models:	10.5 Single Phas 84 Single-Phas 10mSec for 0.2A Max load	10.5 se models: 0 84 se and 3-Ph Single-Pha d, Ripple &	10.5 0.99@230\ 86 hase 208V ase and 3-p	9.8 Vac, rated ou 86 models: Les	9.8 Itput power 88 s than 50A	9.8 : 3-Phase n 88	9.8		16.3	16.3	16.2	
3. Power Factor (Typ) 4. Efficiency (*4) 5. Inrush Current (5) 6. Hold up time (CV Mode) 2.2 AUXILIARY OUTPUT 1. 15V output 2.3 POWER SUPPLY CONFIGURATION 1. Parallel Operation 2. Series Operation 2. Series Operation 2. Series Operation 2. Storage temperature 2. Storage temperature 3. Operating humidity 5. Vibration 5. Shock 7. Altitude 6. RoHS Compliance 2. SED 6. Applicable Standards: 2. ESD 6. Radiated immunity 6. Conducted immunity 6. Conducted immunity 6. Conducted emission 10. Radiated emission 10. Radiated emission 2. 6 SAFETY 1. Applicable standards: 2. Withstand voltage 2. Withstand voltage	% A mS	Single Phase 84 Single-Phase 10mSec for 90.2A Max load, 90.2A Max load,	84 se and 3-Ph Single-Pha d, Ripple &	0.99@230\ 86 hase 208V ase and 3-p	Vac, rated ou 86 models: Les	s than 50A	: 3-Phase n 88		0.0			10.5	16.3
B. Efficiency (*4) 5. Inrush Current (5) 5. Hold up time (CV Mode) 2.2 AUXILIARY OUTPUT 1. 15V output 2. 5V output 2. 5V output 3. POWER SUPPLY CONFIGURATION 4. Parallel Operation 5. Series Operation 6. Series Operation 7. Series Operation 8. Operating temperature 8. Operating humidity 8. Operating humidity 8. Storage temperature 9. Storage temperature 9. Shock 9. Altitude 9. RoHS Compliance 9. SEMC 9. Applicable Standards: 9. ESD 9. Fast transients 9. Surge immunity 9. Conducted immunity 9. Conducted immunity 9. Radiated immunity 9. Conducted emission 10. Radiated emission	A mS 15V±5%, 5V±5%, Up to Fo current c panel of	84 Single-Phas 10mSec for 0.2A Max load 0.2A Max load,	84 se and 3-Ph Single-Pha d, Ripple &	86 hase 208V ase and 3-p	86 models: Les	88 s than 50A	88	nodels: 0.9	9.0	9.8	9.8	9.8	9.8
is. Inrush Current (5) is. Hold up time (CV Mode) is. Hold up time (CV Mode) is. Hold up time (CV Mode) is. 22 AUXILIARY OUTPUT is. 15V output is. 5V output is. 3POWER SUPPLY CONFIGURATION is. Parallel Operation is. 4ENVIRONMENTAL CONDITIONS is. Operating temperature is. Operating temperature is. Operating humidity is. Storage temperature is. Storage humidity is. Storage humidity is. Vibration is. Shock is. Altitude is. RoHS Compliance is. ESD is. Fast transients is. Surge immunity is. Conducted immunity is. Conducted immunity is. Radiated immunity is. August if it is immunity is. Oconducted emission is. Radiated emission is. Radi	A mS 15V±5%, 5V±5%, Up to Fo current c panel of	Single-Phas 10mSec for 0.2A Max load 0.2A Max load,	se and 3-Ph Single-Pha d, Ripple &	hase 208V ase and 3-p	models: Les	s than 50A			4@208 Vac	, rated outp	ut power.		
8. Hold up time (CV Mode) 8. 2. AUXILIARY OUTPUT 1. 15V output 1. 5V output 1. 3. POWER SUPPLY CONFIGURATION 1. Parallel Operation 2. Series Operation 2. Series Operation 2. 4 ENVIRONMENTAL CONDITIONS 1. Operating temperature 2. 5 Operating humidity 3. Comparing temperature 3. Operating humidity 4. Storage humidity 5. Vibration 6. Shock 6. Altitude 8. RoHS Compliance 8. Fast ransients 9. ESD 9. Fast transients 9. Fast transients 9. Conducted immunity 9. Magnetic field immunity 9. Magnetic field immunity 9. Conducted emission 10. Radiated emission	mS 15V±5%, 5V±5%, Up to Fo current c panel of	10mSec for 3 0.2A Max load 0.2A Max load,	Single-Pha d, Ripple &	ase and 3-p				88	88	88	88	88	87
2.2 AUXILIARY OUTPUT 1. 15V output 2. 5V output 2. 3 POWER SUPPLY CONFIGURATION 1. Parallel Operation 2. Series Operation 2.4 ENVIRONMENTAL CONDITIONS 1. Operating temperature 2. Storage temperature 3. Operating humidity 4. Storage humidity 5. Vibration 5. Shock 7. Altitude 8. RoHS Compliance 2.5 EMC 1. Applicable Standards: 2. ESD 3. Fast transients 4. Surge immunity 5. Conducted immunity 5. Radiated immunity 7. Magnetic field immunity 7. Magnetic fled immunity 7. Adapticable standards: 2. 6 SAFETY 1. Applicable standards: 2. Conducted emission 2. 6 SAFETY 1. Applicable standards: 2. Withstand voltage 3. Insulation resistance 2.7 MECHANICAL CONSTRUCTION	15V±5%, 5V±5%, Up to Fo current c panel of	0.2A Max load 0.2A Max load,	d, Ripple &		ohase 208V i	models at							
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2.5V output 2.3 POWER SUPPLY CONFIGURATION 1. Parallel Operation 2. Series Operation 2.4 ENVIRONMENTAL CONDITIONS 1. Operating temperature 2. Storage temperature 3. Operating humidity 4. Storage humidity 5. Vibration 6. Shock 7. Altitude 6. RoHS Compliance 2.5 EMC 1. Applicable Standards: 2. ESD 3. Fast transients 4. Surge immunity 5. Conducted immunity 6. Radiated immunity 7. Magnetic field immunity 8. Ronducted emission 10. Radiated emission 10. Radiated emission 2.6 SAFETY 1. Applicable standards: 2. Withstand voltage 3. Insulation resistance 2.7 MECHANICAL CONSTRUCTION	Up to Fo current of panel of	0.2A Max load,			m\/n_n_Pofo	ropood into	rnally to the	nogativo.	output noto	ntial			
2.3 POWER SUPPLY CONFIGURATION 1. Parallel Operation 2. Series Operation 2. 4 ENVIRONMENTAL CONDITIONS 1. Operating temperature 2. Storage temperature 2. Storage temperature 3. Operating humidity 4. Storage humidity 5. Vibration 6. Shock 7. Attitude 8. RoHS Compliance 2.5 EMC 1. Applicable Standards: 2. ESD 3. Fast transients 4. Surge immunity 5. Conducted immunity 6. Radiated immunity 7. Magnetic field immunity 8. Voltage dips 9. Conducted emission 10. Radiated emission 2.6 SAFETY 1. Applicable standards: 2. Withstand voltage 3. Insulation resistance 2.7 MECHANICAL CONSTRUCTION	Up to Fo current of panel of		, ruppic a i							illai.			
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2.4 ENVIRONMENTAL CONDITIONS 1. Operating temperature 2. Storage temperature 3. Operating humidity 4. Storage humidity 5. Vibration 6. Shock 7. Altitude 8. RoHS Compliance 2.5 EMC 1. Applicable Standards: 2. ESD 3. Fast transients 4. Surge immunity 5. Conducted immunity 6. Radiated immunity 7. Magnetic field immunity 8. Voltage dips 9. Conducted emission 10. Radiated emission 2.6 SAFETY 1. Applicable standards: 2. Withstand voltage 3. Insulation resistance 2.7 MECHANICAL CONSTRUCTION	panel of				ted in Master								
2.4 ENVIRONMENTAL CONDITIONS 1. Operating temperature 2. Storage temperature 3. Operating humidity 4. Storage humidity 5. Vibration 6. Shock 7. Altitude 6. RoHS Compliance 2.5 EMC 1. Applicable Standards: 2. ESD 3. Fast transients 4. Surge immunity 5. Conducted immunity 6. Radiated immunity 7. Magnetic field immunity 8. Notage dips 9. Conducted emission 10. Radiated emission 2.6 SAFETY 1. Applicable standards: 2. Withstand voltage 3. Insulation resistance 2.7 MECHANICAL CONSTRUCTION		Master Unit, r										d on front	
2.4 ENVIRONMENTAL CONDITIONS 1. Operating temperature 2. Storage temperature 3. Operating humidity 4. Storage humidity 5. Vibration 6. Shock 7. Altitude 6. RoHS Compliance 2.5 EMC 1. Applicable Standards: 2. ESD 3. Fast transients 4. Surge immunity 5. Conducted immunity 6. Radiated immunity 7. Magnetic field immunity 8. Notage dips 9. Conducted emission 10. Radiated emission 2.6 SAFETY 1. Applicable standards: 2. Withstand voltage 3. Insulation resistance 2.7 MECHANICAL CONSTRUCTION	Possible	Master unit. Re											
1. Operating temperature 2. Storage temperature 3. Operating humidity 4. Storage humidity 5. Vibration 6. Shock 7. Altitude 6. RoHS Compliance 2.5 EMC 1. Applicable Standards: 2. ESD 3. Fast transients 4. Surge immunity 5. Conducted immunity 6. Radiated immunity 7. Magnetic field immunity 8. RoHS de dips 9. Conducted emission 10. Radiated emission 2.6 SAFETY 1. Applicable standards: 2. Withstand voltage 3. Insulation resistance 2.7 MECHANICAL CONSTRUCTION		(with external o	diodes), up	to identica	al 2 units with	n total outp	ut not to exc	ceed +/-600	OV from cha	ssis ground	l <u> </u>		
1. Operating temperature 2. Storage temperature 3. Operating humidity 4. Storage humidity 5. Vibration 6. Shock 7. Altitude 6. RoHS Compliance 2.5 EMC 1. Applicable Standards: 2. ESD 3. Fast transients 4. Surge immunity 5. Conducted immunity 6. Radiated immunity 7. Magnetic field immunity 8. RoHS de dips 9. Conducted emission 10. Radiated emission 2.6 SAFETY 1. Applicable standards: 2. Withstand voltage 3. Insulation resistance 2.7 MECHANICAL CONSTRUCTION													
2. Storage temperature 3. Operating humidity 4. Storage humidity 5. Vibration 6. Shock 7. Attitude 8. RoHS Compliance 2.5 EMC 1. Applicable Standards: 2. ESD 3. Fast transients 4. Surge immunity 5. Conducted immunity 6. Radiated immunity 7. Magnetic field immunity 8. Voltage dips 9. Conducted emission 10. Radiated emission 2.6 SAFETY 1. Applicable standards: 2. Withstand voltage 3. Insulation resistance 2.7 MECHANICAL CONSTRUCTION	0~50°C,	100% load.											
3. Operating humidity 4. Storage humidity 5. Vibration 6. Shock 7. Altitude 8. RoHS Compliance 2.5 EMC 1. Applicable Standards: 2. ESD 3. Fast transients 4. Surge immunity 5. Conducted immunity 6. Radiated immunity 7. Magnetic field immunity 8. Voltage dips 9. Conducted emission 10. Radiated emission 10. Radiated emission 2.6 SAFETY 1. Applicable standards: 2. Withstand voltage	-20~85°0												
4. Storage humidity 5. Vibration 6. Shock 7. Altitude 8. RoHS Compliance 2.5 EMC 1. Applicable Standards: 2. ESD 3. Fast transients 4. Surge immunity 5. Conducted immunity 5. Radiated immunity 7. Magnetic field immunity 8. Voltage dips 9. Conducted emission 10. Radiated emission 2.6 SAFETY 1. Applicable standards: 2. Withstand voltage 3. Insulation resistance 2.7 MECHANICAL CONSTRUCTION		RH (non-conde	ensina).										
5. Vibration 5. Shock 7. Altitude 8. RoHS Compliance 2.5 EMC 1. Applicable Standards: 2. ESD 3. Fast transients 4. Surge immunity 5. Conducted immunity 5. Radiated immunity 7. Magnetic field immunity 8. Voltage dips 9. Conducted emission 10. Radiated emission 2.6 SAFETY 1. Applicable standards: 2. Withstand voltage		RH (non-conde											
7. Altitude 8. RoHS Compliance 2.5 EMC 1. Applicable Standards: 2. ESD 3. Fast transients 4. Surge immunity 5. Conducted immunity 6. Radiated immunity 7. Magnetic field immunity 8. Voltage dips 9. Conducted emission 10. Radiated emission 12. SAFETY 1. Applicable standards: 2. Withstand voltage		method 514.5		T is fixed to	the vibrating	a surface.							
8. RoHS Compliance 2.5 EMC 1. Applicable Standards: 2. ESD 3. Fast transients 4. Surge immunity 5. Conducted immunity 6. Radiated immunity 7. Magnetic field immunity 8. Voltage dips 9. Conducted emission 10. Radiated emission 2.6 SAFETY 1. Applicable standards: 2. Withstand voltage 3. Insulation resistance 2.7 MECHANICAL CONSTRUCTION						9							
8. RoHS Compliance 2.5 EMC 1. Applicable Standards: 2. ESD 3. Fast transients 4. Surge immunity 5. Conducted immunity 6. Radiated immunity 7. Magnetic field immunity 8. Voltage dips 9. Conducted emission 10. Radiated emission 2.6 SAFETY 1. Applicable standards: 2. Withstand voltage 3. Insulation resistance 2.7 MECHANICAL CONSTRUCTION		Less than 20G, half sine, 11mSec. Unit is unpacked. Operating: 10000ft (3000m), Derate output current by 2%/100m above 2000m, Alternatively, derate maximum ambient temp.											
2.5 EMC 1. Applicable Standards: 2. ESD 3. Fast transients 4. Surge immunity 5. Conducted immunity 6. Radiated immunity 7. Magnetic field immunity 8. Voltage dips 9. Conducted emission 10. Radiated emission 2.6 SAFETY 1. Applicable standards: 2. Withstand voltage 3. Insulation resistance 2.7 MECHANICAL CONSTRUCTION		Operating. House (Goodin, Defact output current by 2/8 room above 2000m, Alternatively, defact maximum ambient temp. by 1°C/100m above 2000m. Non operating: 40000ft (12000m).											
2.5 EMC 1. Applicable Standards: 2. ESD 3. Fast transients 4. Surge immunity 5. Conducted immunity 6. Radiated immunity 7. Magnetic field immunity 8. Voltage dips 9. Conducted emission 10. Radiated emission 2.6 SAFETY 1. Applicable standards: 2. Withstand voltage 3. Insulation resistance 2.7 MECHANICAL CONSTRUCTION		with the requi											
1. Applicable Standards: 2. ESD 3. Fast transients 4. Surge immunity 5. Conducted immunity 6. Radiated immunity 7. Magnetic field immunity 8. Voltage dips 9. Conducted emission 10. Radiated emission 2.6 SAFETY 1. Applicable standards: 2. Withstand voltage 3. Insulation resistance 2.7 MECHANICAL CONSTRUCTION	10000												
2. ESD 3. Fast transients 4. Surge immunity 5. Conducted immunity 6. Radiated immunity 7. Magnetic field immunity 8. Voltage dips 9. Conducted emission 10. Radiated emission 2.6 SAFETY 1. Applicable standards: 2. Withstand voltage 3. Insulation resistance 2.7 MECHANICAL CONSTRUCTION													
3. Fast transients 4. Surge immunity 5. Conducted immunity 6. Radiated immunity 7. Magnetic field immunity 8. Voltage dips 9. Conducted emission 10. Radiated emission 2.6 SAFETY 1. Applicable standards: 2. Withstand voltage 3. Insulation resistance 2.7 MECHANICAL CONSTRUCTION	1504000	101: 1	011/										
4. Surge immunity 5. Conducted immunity 6. Radiated immunity 7. Magnetic field immunity 8. Voltage dips 9. Conducted emission 10. Radiated emission 2.6 SAFETY 1. Applicable standards: 2. Withstand voltage 3. Insulation resistance 2.7 MECHANICAL CONSTRUCTION		4-2. Air-disch	-8kV, conta	act disch4	kV								
5. Conducted immunity 6. Radiated immunity 7. Magnetic field immunity 8. Voltage dips 9. Conducted emission 10. Radiated emission 2.6 SAFETY 1. Applicable standards: 2. Withstand voltage 3. Insulation resistance 2.7 MECHANICAL CONSTRUCTION		4-4. 2kV											
6. Radiated immunity 7. Magnetic field immunity 8. Voltage dips 9. Conducted emission 10. Radiated emission 2.6 SAFETY 1. Applicable standards: 2. Withstand voltage 3. Insulation resistance 2.7 MECHANICAL CONSTRUCTION		4-5. 1kV line to	o line, 2kV	line to grou	und								
7. Magnetic field immunity 8. Voltage dips 9. Conducted emission 10. Radiated emission 2.6 SAFETY 1. Applicable standards: 2. Withstand voltage 3. Insulation resistance 2.7 MECHANICAL CONSTRUCTION	IEC1000												
8. Voltage dips 9. Conducted emission 10. Radiated emission 2.6 SAFETY 1. Applicable standards: 2. Withstand voltage 3. Insulation resistance 2.7 MECHANICAL CONSTRUCTION		-4-3, 3V/m											
9. Conducted emission 10. Radiated emission 2.6 SAFETY 1. Applicable standards: 2. Withstand voltage 3. Insulation resistance 2.7 MECHANICAL CONSTRUCTION		-4-8, 1A/m											
10. Radiated emission 2.6 SAFETY 1. Applicable standards: 2. Withstand voltage 3. Insulation resistance 2.7 MECHANICAL CONSTRUCTION		N61000-4-11 N55022A, FCC part 15-A, VCCI-A.											
2.6 SAFETY 1.Applicable standards: 2.Withstand voltage 3.Insulation resistance 2.7 MECHANICAL CONSTRUCTION													
2. Withstand voltage 3. Insulation resistance 2.7 MECHANICAL CONSTRUCTION	EN55022	A, FCC part 1	5-A, VCCI-	-A.									
2.Withstand voltage 3.Insulation resistance 2.7 MECHANICAL CONSTRUCTION													
3.Insulation resistance 2.7 MECHANICAL CONSTRUCTION	CE Mark	, UL60950,EN	60950 liste	ed. Vout≤40	0V:Output is	SELV, IEE	E/Isolated a	nalog are	SELV.				
3.Insulation resistance 2.7 MECHANICAL CONSTRUCTION	40 <vout< td=""><td>400V: Output</td><td>is hazardo</td><td>us, IEEE/Is</td><td>solated analo</td><td>g are SEL\</td><td><i>l</i>.</td><td>-</td><td></td><td></td><td></td><td></td><td></td></vout<>	400V: Output	is hazardo	us, IEEE/Is	solated analo	g are SEL\	<i>l</i> .	-					
3.Insulation resistance 2.7 MECHANICAL CONSTRUCTION	400 <vol< td=""><td>t≤600V:Output</td><td>t is hazardo</td><td>ous, IEEE/I</td><td>Isolated anal</td><td>og are not</td><td>SELV.</td><td></td><td></td><td></td><td></td><td></td><td></td></vol<>	t≤600V:Output	t is hazardo	ous, IEEE/I	Isolated anal	og are not	SELV.						
2.7 MECHANICAL CONSTRUCTION	Vout≤40	/ models :Inpu	it-Outputs ((SELV): 424	42VDC 1min	, Input-Gro	und: 2828V	DC 1min.					
2.7 MECHANICAL CONSTRUCTION	40 <vout< td=""><td>100V models:</td><td>Input-Haz</td><td>. Output: 26</td><td>600VDC 1mi</td><td>n, Input-SE</td><td>LV: 4242V[</td><td>OC 1min.</td><td></td><td></td><td></td><td></td><td></td></vout<>	100V models:	Input-Haz	. Output: 26	600VDC 1mi	n, Input-SE	LV: 4242V[OC 1min.					
2.7 MECHANICAL CONSTRUCTION	Hazardo	us OutputSEL	LV: 1900VD	OC 1min, H	azardous Ou	tput-Grour	nd:1200VDC	1min. Inp	ut-Ground:	2828VDC 1	min.		
2.7 MECHANICAL CONSTRUCTION	100 <vou< td=""><td>t≤600V models</td><td>s: Input-Ha</td><td>z. Output: 4</td><td>4000VDC 1n</td><td>nin, Input-S</td><td>ELV: 4242\</td><td>/DC 1min.</td><td></td><td></td><td></td><td></td><td></td></vou<>	t≤600V models	s: Input-Ha	z. Output: 4	4000VDC 1n	nin, Input-S	ELV: 4242\	/DC 1min.					
2.7 MECHANICAL CONSTRUCTION	Hazardo	us OutputSEL	LV: 3550VD	OC 1min. Ha	azardous Ou	tput-Grour	d:2670VD0	1min. Inp	ut-Ground:	2828VDC 1	min.		
	More tha	n 100Mohm at	25°C , 70°	% RH.									
	•		-										
i. Odding	Forced a	r flow: from fro	nt to rear I	No ventilati	ion holes at t	he ton or h	ottom of the	chaccie: \	/ariahla fan	eneed			
Dimensions (M/sLbsD)													
2. Dimensions (WxHxD)		m / 16.65" H: 4	40.0111111 / 1	.12, D: 432	2.0111111/17	excluding	connectors,	encoders,	nanules, et	IC.)			
3. Weight	10 kg. / 2												
4. AC Input connector (with Protective Cove	3-Phase	nase,230V mod 208V models,	, wire clam	p connecto	r, Phoenix P	N: FRONT	-4-H-7.62, v	vith Strain r	relief.				
5.Output connectors		V models: Bus output Header							nnector, Ph	oenix P/N: F	RONT-4-H	7.62	
0.7.11/	i, wastilled y		-			,							
2.7 Warranty 1. Warranty	p. sazanca y												

Outline Drawing Genesys™ 2.4kW Units

All specifications subject to change without notice.





NOTE

- 1. Mating plug supplied with power supply
- Bus bars for 8V to 100V models (shown)
 Wire clamp connector for 150V to 600V models
- Chassis slides mounting holes #10-32 marked "A" GENERAL DEVICES P/N: CC3001-00-S160 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

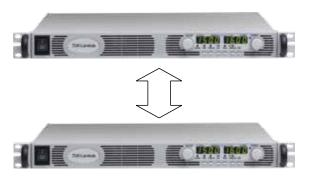
Up to two units may be connected in series to increase the output voltage or to provide bipolar output. (Max 600V to Chassis Ground).

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.







P/N: IEMD

P/N: MD

P/N: IS420

P/N: LAN

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.
- P/N: IS510 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

- 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

P/N: USB **USB** Interface

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 - 300

Series Output Output Name Voltage Current (0~8V) (0~300A) Pactory Options
Option: IEMD
MD
IS510
IS420
LAN

USB

AC Input Options 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 options

RS-232/RS-485 Interface built-in Standard

GPIB (Multi-Drop Master) Interface*

MD

Multi-Drop Slave Interface*

Voltage Programming Isolated Analog Interface*

Current Programming Isolated Analog Interface*

LAN Interface (Complies with LXI Class C)*

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

P/N

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/2400W
2U Full Rack 3300W
3U Full Rack 10/15kW

^{*} Limit of one interface option per supply