Improved ons

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



Genesys™ Family GenH 750W Half Rack Gen1U 750/1500W Full Rack Gen2U 3.3/5kW

TDK-Lambda

TDK·Lambda

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

LX Compliant LAN

- LabView® and LabWindows® drivers
- Five Year Warranty

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





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 UVI 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												lue are ir	
MODEL (*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 8	600 4
3.Rated Output Power	W	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400
1.1 CONSTANT VOLTAGE MODE		2100	2100		2100	2100	2100	2100	2100	2100	2100	2100	2100
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 DDA4/0C	2	2	2	2	5	5	5	5	5	5	5	5
6.Temp. coefficient 7.Temp. stability	PPIM/°C				voltage,f					ant line, lo	and P. tomi		
8.Warm-up drift		Less than	0.05% of	rated outr	out voltage	110110WIII	er 30 mini	ites follos	vina now	arit iiie, ic	au & teili	υ.	
9.Up-prog. response time, 0~Vo Rated (*9)	mS	LC33 triari	0.0370 01	15	out voitage	C I ZIIIV OV	20	30	40	40	60	80	100
10.Down-prog response Full-load (*9)	mS	10	10	20	20	20	20	30	50	50	80	100	100
time No-load (*10)	mS	500	500	500	500	600	700	1100	1200	1500	2500	3000	3000
11 Torresis and we are a set time a	mS	Timeforo	utput volt	age to reco	over within	0.5% of it	s rated out	putforale	ad chang	e 10-90% o	frated out	tput currer	nt.Outpu
11.Transient response time	ms									ng 100V. 2r			
1.2 CONSTANT CURRENT MODE													
1.Max.line regulation (0.01% of rated lo+2mA)(*6)	mΑ	32	26	17	14	10	8	6	5	4.4	3.6	2.8	2.4
2.Max.load regulation (0.02% of rated lo+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	DD14/0C				it current					•			
5.Temp. coefficient 6.Temp. stability	PPM/°C				out currer					ant line, lo	ad 8. tomp	oraturo	
										wing pow		perature.	
7.Warm-up drift										following			
1.3 PROTECTIVE FUNCTIONS		1501 000		Less triari	_0,25700.	- ratea oa	tput curre			· c.i.c · i · i · i · j	, , , , , , , , , , , , , , , , , , ,		
1. OCP		0~105% C	Constant C	urrent									
2. OCP Foldback					ver supply								
3. OVP type		Inverter s	hut-down	<u>, manual r</u>	eset by A	Cinput re	cycle or by	OUT but	ton or by	communic	ation por	t comman	ıd.
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					nunicatio		events froi	n adjustir	ig Vout be	low limit.			
6. Over Temp. Protection 1.4 ANALOG PROGRAMMING AND MONITO	DINC	User selec	ctable , lat	<u>cnea or no</u>	on-latched	J							
1.Vout Voltage Programming	KING	0~100%	0~5V or 0	-10V user	select. Ac	curacy an	d linearity	r+0.5% of	rated Voi	ıt			
2.lout Voltage Programming (*13)					select. Ac					и.			
3.Vout Resistor Programming										ed Vout.			
4.lout Resistor Programming (*13)		0~100%, 0~5/10Kohm full scale, user select., Accuracy and linearity: ±1% of rated Vout. 0~100%, 0~5/10Kohm full scale, user select. Accuracy and linearity: ±1.5% of rated lout.											
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					user sele, 6								
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 12. Local/Remote analog control Indicator		By electrical signal or Open/Short: 0~0.6V or short: Remote, 2~15V or open: Local. Open collector, Local: Off, Remote: On. Maximum voltage: 30V, maximum sink current: 10mA.											
1.5 FRONT PANEL		Орепсоп	iector, Loc	ai. Oii, nei	mote. On.	Maxilliul	ii voitage.	JUV, IIIaki	IIIUIII SIIIK	current, i	UIIIA.		
1.5TRONTTANLE		Vout/Iou	t manual a										
	Vout/lout manual adjust by separate encoders (coarse and fine adjustment selectable).												
OVP/UVL manual adjust by Volt. Adjust encoder. Control functions On/Off, Output on/off, Re-start modes (auto, safe), Foldback control (CV to CC), Go to local control.								l fine adju	stment se	electable).			
1.Control functions			manual a	djust by Vo	olt. Adjust	encoder.		•		•	al control		
1.Control functions		On/Off, O Address s	manual ad output on/ selection b	djust by Vo off, Re-sta by Voltage	olt. Adjust irt modes (or currer	encoder. (auto, safe it) adjust (e), Foldbac	k control	(CV to CC	, Go to loc	al control		
1.Control functions		On/Off, O Address s Re-start n	manual ad output on/ election b nodes (au	djust by Vo off, Re-sta by Voltage tomatic re	olt. Adjust art modes (or currer estart, safe	encoder. (auto, safe t) adjust (mode).	e), Foldbac encoder. N	k control	(CV to CC	, Go to loc	al control		
1.Control functions		On/Off, O Address s Re-start n Baud rate	manual ad utput on/ election b nodes (au selection	djust by Vo off, Re-sta by Voltage tomatic re : 1200,240	olt. Adjust ort modes (or currer estart, safe 00,4800,96	encoder. (auto, safe at) adjust (mode). 00 and 19	e), Foldbac encoder. N 9,200.	k control lumber of	(CV to CC) addresse	, Go to loc	al control		
		On/Off, O Address s Re-start n Baud rate Voltage: 4	manual ad Jutput on/ election be nodes (au selection digits, A	djust by Vo off, Re-sta by Voltage tomatic re : 1200,240 ccuracy:	olt. Adjust ort modes (or curren estart, safe 10,4800,96 0.05% of	encoder. (auto, safe at) adjust (mode). 00 and 19 rated ou	e), Foldbacencoder. N 0,200. tput Volt	k control lumber of	(CV to CC) addresse	, Go to loc	al control		
2.Display		On/Off, O Address s Re-start n Baud rate Voltage: 4 Current: 4	manual ad Jutput on/ Jutput on/ Judget (au Judgets (au Judgets (au Judgets) Ad Judgets (au Judgets) Ad Judgets (au Judgets) Ad	djust by Vo off, Re-sta by Voltage tomatic re : 1200,240 ccuracy: (ccuracy: (olt. Adjust irt modes (or currer start, safe 00,4800,96 0.05% of 0.2% of ra	encoder. (auto, safe it) adjust of mode). 00 and 19 rated out	e), Foldbacencoder. N 9,200. tput Volt	k control lumber of age ±1 cont ±1 cou	(CV to CC) addresse ount. nt.	, Go to loc s:31.			
2.Display 3.Indications		On/Off, O Address s Re-start n Baud rate Voltage: 4 Voltage, O	manual ad lutput on/ election be nodes (au selection digits, Ad digits, Ad current, Al	djust by Vo off, Re-sta by Voltage tomatic re : 1200,240 ccuracy: C larm, Fine,	olt. Adjust ort modes (or currer start, safe 00,4800,96 0.05% of 0.2% of ra , Preview,	encoder. (auto, safe at) adjust of mode). 00 and 19 rated out Foldback,	e), Foldbac encoder. N 9,200. tput Volt but currer Local, Ou	k control lumber of age ±1 cont ±1 cou	addresse	, Go to loc			
2.Display 3.Indications 1.6 Interface Specifications for the GENESY:		On/Off, O Address s Re-start n Baud rate Voltage: 4 Current: 4 Voltage, C with RS-2	manual ac Jutput on/ Jule lection be nodes (au selection digits, Ad digits, Ad Jurrent, Al 32/RS-4	djust by Vo off, Re-sta by Voltage tomatic re : 1200,240 ccuracy: C ccuracy: C arm, Fine, 85 Or Op	olt. Adjust art modes (or current start, safe 10,4800,96 0.05% of 0.2% of ra Preview, I	encoder. (auto, safe (a) adjust (mode). 00 and 19 rated out red out Foldback, PIB/LAN	e), Foldbacencoder. N 9,200. tput Volt but currer Local, Ou Interface	age ±1 control to the state of	count.	l, Go to loo s:31.	CC.		
2.Display 3.Indications 1.6 Interface Specifications for the GENESY: 1. Remote Voltage Programming (16 bit)	V	On/Off, O Address s Re-start n Baud rate Voltage: 4 Voltage, O with RS-2	manual ad Jutput on/ Jule lection be nodes (au selection digits, Ad Jugits, Ad Jurrent, Al 32/RS-4	djust by Vo off, Re-sta by Voltage tomatic re : 1200,240 ccuracy: C ccuracy: C arm, Fine, 85 Or Op	olt. Adjust art modes (or current start, safe 10,4800,96 0.05% of 0.2% of ra Preview, tional G	encoder. (auto, safe at) adjust e mode). 00 and 19 rated out ted out Foldback, PIB/LAN	e), Foldbacencoder. No. 200. tput Voltbut currer Local, Ou Interface	age ±1 control to the state of	CV to CC addresse ount. nt. ront Pane	I, Go to loo s:31.	CC.	300	600
2.Display 3.Indications 1.6 Interface Specifications for the GENESY: 1. Remote Voltage Programming (16 bit) Resolution (0.002% of Vo Rated)	V mV	On/Off, O Address s Re-start n Baud rate Voltage: 4 Current: 4 Voltage, O with RS-2	manual ad Jutput on/ Jule election be nodes (au selection digits, Ad digits, Ad Current, Al 32/RS-4:	djust by Vo off, Re-sta by Voltage tomatic re : 1200,240 ccuracy: C curacy: C larm, Fine, 85 Or Op	olt. Adjust art modes (or current start, safe 10,4800,96 0.05% of 0.2% of ra Preview, tional G	encoder. (auto, safe t) adjust e mode). 00 and 19 rated out Foldback, PIB/LAN 30 0.6	e), Foldbacencoder. No. 2,200. tput Voltbut currer Local, Ou Interface 40 0.8	age ±1 control typut On, Fe Installe	CV to CC addresse ount. nt. ront Pane	I, Go to loc s:31.	CC. 150	300	12
2.Display 3.Indications 1.6 Interface Specifications for the GENESY 1. Remote Voltage Programming (16 bit) Resolution (0.002% of Vo Rated) Accuracy (0.05% of Vo Rated) (*14)	V	On/Off, O Address s Re-start n Baud rate Voltage: 4 Voltage, O with RS-2	manual ad Jutput on/ Jule lection be nodes (au selection digits, Ad Jugits, Ad Jurrent, Al 32/RS-4	djust by Vo off, Re-sta by Voltage tomatic re : 1200,240 ccuracy: C ccuracy: C arm, Fine, 85 Or Op	olt. Adjust art modes (or current start, safe 10,4800,96 0.05% of 0.2% of ra Preview, tional G	encoder. (auto, safe at) adjust e mode). 00 and 19 rated out ted out Foldback, PIB/LAN	e), Foldbacencoder. No. 200. tput Voltbut currer Local, Ou Interface	age ±1 control to the state of	CV to CC addresse ount. nt. ront Pane	I, Go to loo s:31.	CC.	300	
2.Display 3.Indications 1.6 Interface Specifications for the GENESY: 1.Remote Voltage Programming (16 bit) Resolution (0.002% of Vo Rated) Accuracy (0.05% of Vo Rated) (*14) 2. Remote Current Programming (16 bit)	V mV mV	On/Off, O Address s Re-start n Baud rate Voltage: 4 Current: 4 Voltage, C with RS-2 8 0.16 4	manual adutput on/election benedes (automodes (automode	djust by Vooff, Re-sta oy Voltage tomatic re : 1200,240 ccuracy: Ccuracy: Ccuracy: Couracy: C	olt. Adjust irt modes (or currer start, safe 00,4800,96 0.05% of 0.2% of ra Preview, tional G 20 0.4 10	encoder. (auto, safe t) adjust e mode). 00 and 19 rated out Foldback, PIB/LAN 30 0.6 15	e), Foldbacencoder. No. 2,200. tput Voltbut currer Local, Ou Interface 40 0.8 20	ek control lumber of age ±1 cou tput On, F e Installe 60 1.2 30	ount. nt. ront Pane ed 80 1.6 40	Lock, CV	150 3 75	300 6 150	12 300
2.Display 3.Indications 1.6 Interface Specifications for the GENESY: 1. Remote Voltage Programming (16 bit) Resolution (0.002% of Vo Rated) Accuracy (0.05% of Vo Rated) (*14) 2. Remote Current Programming (16 bit) Resolution (0.002% of lo Rated)	V mV mV	On/Off, On Address single Re-start in Baud rate Voltage: 4 Voltage; 4 Voltage, Current: 4 Voltage, Current	manual ad rutput on/ election b noction b selection b digits, A digits, A digits, A current, Al 10 0.2 5	djust by Vcoff, Re-sta oy Voltage tomatic re: 1200,240 cccuracy: Cccuracy: Carm, Fine, 85 Or Op 15 0.3 8	olt. Adjust Irt modes (or currer start, safe 10,4800,96 0,05% of r 0,2% of r Preview, tional G 20 0,4 10	encoder. (auto, safe t) adjust of mode). 000 and 19 rated out ted out Foldback, PIB/LAN 30 0.6 15	e), Foldbacencoder. No. 2,200. tput Volt but currer Local, Ou Interface 40 0.8 20	age ±1 country that the	ount. nt. ront Pane 80 1.6 40	, Go to loc s:31. I Lock, CV(150 3 75	300 6 150	12 300 0.08
2.Display 3.Indications 1.6 Interface Specifications for the GENESY: 1.Remote Voltage Programming (16 bit) Resolution (0.002% of Vo Rated) Accuracy (0.05% of Vo Rated) (*14) 2. Remote Current Programming (16 bit)	V mV mV	On/Off, O Address s Re-start n Baud rate Voltage: 4 Current: 4 Voltage, C with RS-2 8 0.16 4	manual adutput on/election benedes (automodes (automode	djust by Vooff, Re-sta oy Voltage tomatic re : 1200,240 ccuracy: Ccuracy: Ccuracy: Couracy: C	olt. Adjust irt modes (or currer start, safe 00,4800,96 0.05% of 0.2% of ra Preview, tional G 20 0.4 10	encoder. (auto, safe t) adjust e mode). 00 and 19 rated out Foldback, PIB/LAN 30 0.6 15	e), Foldbacencoder. No. 2,200. tput Voltbut currer Local, Ou Interface 40 0.8 20	age ±1 coutput On, Fe Installe 60 1.2 30	ount. nt. ront Pane ed 80 1.6 40	Lock, CV	150 3 75	300 6 150	12 300
2.Display 3.Indications 1.6 Interface Specifications for the GENESY: 1. Remote Voltage Programming (16 bit) Resolution (0.002% of Vo Rated) Accuracy (0.05% of Vo Rated) (*14) 2. Remote Current Programming (16 bit) Resolution (0.002% of Io Rated) Accuracy (0.2% of lo Rated). 3. Readback Voltage	V mV mV	On/Off, C Address s Re-start n Baud rate Voltage: (Current: 4 Voltage, (with RS-2 8 0.16 4	manual ad utput on/election be nodes (aur selection be digits, At	djust by Vc off, Re-sta y Voltage tomatic re : 1200,240 ccuracy: C curacy: C arm, Fine, 85 Or Op 15 0.3 8 3.00 450	olt. Adjust irt modes (or currer start, safe 10,4800,96 0.05% of 0.2% of ra Preview, tional G 0.44 10 2.40 360	encoder. (auto, safet) adjust of mode). 00 and 15 rated outsted outs	e), Foldbacencoder. No. 2,200. tput Volt currer Local, Ou Interface 40 0.8 20 1.20 180	age ±1 countries age ±1	ount. nt. ront Pane ed 80 1.6 40	1, Go to loc s:31. 1 Lock, CV(1) 100 2 50	150 3 75 0.32 48	300 6 150 0.16 24	12 300 0.08 12
2.Display 3.Indications 1.6 Interface Specifications for the GENESY: 1.8 Remote Voltage Programming (16 bit) Resolution (0.002% of Vo Rated) Accuracy (0.05% of Vo Rated) (*14) 2. Remote Current Programming (16 bit) Resolution (0.002% of lo Rated) Accuracy (0.2% of lo Rated) 3. Readback Voltage Resolution (% of Vo Rated)	V mV mV mA mA	On/Off, C Address s Re-start r Baud rate Voltage: 4 Current: 4 Voltage, (with RS-2 8 0.16 4	manual ad utput on/election be needed from the	djust by Vc off, Re-sta off, Re-sta y Voltage tomatic re : 1200,240 cccuracy: C ccuracy: C ccuracy: C 0.3 8 3.00 450 0.007	olt. Adjust int modes (or currer start, safe 10,4800,96 0.05% of 0.2% of ra. Preview, Itoland 10 0.44 0.05% of 0.44 0.006	encoder. (auto, safut) adjust of mode). 00 and 19 rated outs Foldback, PIB/LAN 30 0.6 15	e), Foldbacencoder. N D,200. tput Volt volt currer Local, Ou Interface 0.8 20 1.20 1.80	ck control charge ±1 control control charge ±1 control c	0.002	1, Go to lock, CV/(1) 100 2 50 0.48 72 0.011	150 3 75 0.32 48	300 6 150 0.16 24	12 300 0.08 12
2.Display 3.Indications 1.6 Interface Specifications for the GENESY: 1.Remote Voltage Programming (16 bit) Resolution (0.002% of Vo Rated) Accuracy (0.05% of Vo Rated) (*14) 2. Remote Current Programming (16 bit) Resolution (0.002% of Io Rated) Accuracy (0.2% of Io Rated) Accuracy (0.2% of Io Rated) Accuracy (0.2% of Io Rated) Comparison (16 bit) Resolution (% of Vo Rated) Resolution (% of Vo Rated) Resolution (Readback Voltage)	V mV mV mA mA	On/Off, C Address s Re-start n Baud rate Voltage: 4 Voltage, C with RS-2 8 0.16 4	manual ad utput on/election be nedes (au-tput on/election be nedes	djust by Vc off, Re-sta yot Voltage tomatic re : 1200,240 ccuracy: ccuracy: c larm, Fine, 85 Or Op 15 0.3 8 3.00 450 0.007 1.05	olt. Adjust int modes (or current start, safe 0,480,960 0.05% of 0,2% of the previous of the p	encoder. (auto, safut) adjust of mode). 00 and 19 rated outsted outs	e), Foldbacencoder. N 2,200. tput Volt but currel Local, Ou Interface 40 0.8 20 1.20 180 0.003 1.20	ck control charge	C(CV to CC) addresse Dunt. nt. ront Pane d 80 1.6 40 0.60 90 0.002 1.60	1 Lock, CV0 100 2 50 0.48 72 0.011 11.00	150 3 75 0.32 48	300 6 150 0.16 24 0.004 12.00	12 300 0.08 12 0.002 12.00
2.Display 3.Indications 1.6 Interface Specifications for the GENESY: 1.8 Remote Voltage Programming (16 bit) Resolution (0.002% of Vo Rated) Accuracy (0.05% of Vo Rated) (*14) 2. Remote Current Programming (16 bit) Resolution (0.002% of lo Rated) Accuracy (0.2% of lo Rated) 3. Readback Voltage Resolution (% of Vo Rated)	V mV mV mA mA	On/Off, C Address s Re-start r Baud rate Voltage: 4 Current: 4 Voltage, (with RS-2 8 0.16 4	manual ad utput on/election be needed from the	djust by Vc off, Re-sta off, Re-sta y Voltage tomatic re : 1200,240 cccuracy: C ccuracy: C ccuracy: C 0.3 8 3.00 450 0.007	olt. Adjust int modes (or currer start, safe 10,4800,96 0.05% of 0.2% of ra. Preview, Itoland 10 0.44 0.05% of 0.44 0.006	encoder. (auto, safut) adjust of mode). 00 and 19 rated outs Foldback, PIB/LAN 30 0.6 15	e), Foldbacencoder. N D,200. tput Volt volt currer Local, Ou Interface 0.8 20 1.20 1.80	ck control charge ±1 control control charge ±1 control c	0.002	1, Go to lock, CV/(1) 100 2 50 0.48 72 0.011	150 3 75 0.32 48	300 6 150 0.16 24	12 300 0.08 12
2.Display 3.Indications 1.6 Interface Specifications for the GENESY: 1. Remote Voltage Programming (16 bit) Resolution (0.002% of Vo Rated) Accuracy (0.05% of Vo Rated) (*14) 2. Remote Current Programming (16 bit) Resolution (0.002% of lo Rated) Accuracy (0.2% of lo Rated+0.1% of lo Actual Output) (*13) 3. Readback Voltage Resolution (% of Vo Rated) Resolution (Readback Voltage) Accuracy (0.05% of Vo Rated) 4. Readback Current	V mV mV mA mA mA wV mV	On/Off, C Address s Re-start r Baud rate Voltage: 4 Current: 4 Voltage, 6 With RS-2 8 0.16 4 6 900	manual ad utput on/election be nodes (au: selection be nodes (au: selection des digits , A current, Al 10 0.2 5 4.80 720 0.011 1.10 5	djust by Vc off, Re-sta yot Voltage tomatic re : 1200,240 ccuracy: C carm, Fine, 85 Or Op 15 0.3 8 3.00 450 0.007 1.05 8	olt. Adjust Int modes (or current start, safe 10,4800,960,0.05% of 0,.02% of raz Preview, Itomal G 20 0.4 10 2.40 360 0.006 1.20 10	encoder. (auto, safett) adjust of mode). 00 and 15 rated outsted outs	e), Foldbacencoder. N 0,200. tput Volt bout currer Local, Ou Interface 40 0.8 20 1.20 180	ck control charge ±1 c	(CV to CC addresse count. nt. ront Panel d 80 1.6 40 90 0.002 1.60 40	0, Go to lock, CV0 100 2 50 0.48 72 0.011 11.00 50	150 3 75 0.32 48 0.007 10.50 75	300 6 150 0.16 24 0.004 12.00 150	12 300 0.08 12 0.002 12.00 300
2.Display 3.Indications 1.6 Interface Specifications for the GENESY: 1. Remote Voltage Programming (16 bit) Resolution (0.002% of Vo Rated) Accuracy (0.05% of Vo Rated) (*14) 2. Remote Current Programming (16 bit) Resolution (0.002% of lo Rated) Accuracy (0.2% of lo Rated). 3. Readback Voltage Resolution (% of Vo Rated) Resolution (Readback Voltage) Accuracy (0.05% of Vo Rated) 4. Readback Current Resolution (% of lo Rated)	V mV mV mV mA mA mA www.mV mV m	On/Off, C Address s Re-start n Baud rate Voltage: 4 Current: 4 Voltage, (With RS-2 8 0.16 4 0.002 0.16 4	manual ad utput on/election be nodes (au: selection be nodes (au: selection des digits , Ac digits , Ac digits , Ac 2.2 S	djust by Vc off, Re-sta yot Voltage tomatic re : 1200,240 ccuracy: C carm, Fine, 85 Or Op 15 0.3 8 3.00 450 0.007 1.05 8	olt. Adjust rt modes (or currer start, safe 10,4800,96 0.05% of 0.02% of ra Preview, rt tional G 20 0.4 10 0.006 1.20 10 0.009	encoder. (auto, safet) (auto,	e), Foldbacencoder. N 0,200. tput Volt but currel Local, Ou Interface 40 0.8 20 1.20 180 0.003 1.20 20	ck control lumber of lum	CV to CC addresse count. nt. ront Pane ed 80 1.6 40 0.60 90 0.002 1.60 40	1, Go to lock, CV/ 100 2 50 0.48 72 0.011 11.00 50 0.005	150 3 75 0.32 48 0.007 10.50 75	300 6 150 0.16 24 0.004 12.00 150	12 300 0.08 12 0.002 12.00 300
2.Display 3.Indications 1.6 Interface Specifications for the GENESY: 1. Remote Voltage Programming (16 bit) Resolution (0.002% of Vo Rated) Accuracy (0.05% of Vo Rated) (*14) 2. Remote Current Programming (16 bit) Resolution (0.002% of lo Rated) Accuracy (0.2% of lo Rated) Accuracy (0.2% of lo Rated) Accuracy (0.2% of lo Rated) Resolution (% of Vo Rated) Resolution (Readback Voltage) Accuracy (0.05% of Vo Rated) 4. Readback Urrent Resolution (% of lo Rated) Resolution (% of lo Rated) Resolution (Readback Current)	W mV mV mA mA mA mV mA mA	On/Off, C Address s Re-start n Baud rate Voltage: 4 Voltage: 4 Voltage, 6 with RS-2 8 0.16 4 0.002 0.16 4	manual ad utput on/election be nodes (au: selection be digits, A d	djust by Vc off, Re-sta yo Yoltage tomatic re : 1200,240 ccuracy: ccuracy: c larm, Fine, 85 Or Op 15 0.3 8 3.00 450 0.007 1.05 8	olt. Adjust Int modes (or current start, safe (or current start), or current start (or cu	encoder. (auto, safet) ti) adjust en mode). 00 and 15 rated out tited out from the color of the	e), Foldbacencoder. N 2,200. tput Volt but curree Local, Ou Interface 40 0.8 20 1.20 180 0.003 1.20 20 0.003 1.20 1.20 1.20	age ±1 country to the state of	(CV to CC addresse count. nt. ront Pane cd 80 1.6 40 90 0.002 1.60 40 0.004 1.2	100 100 100 100 100 100 100 100 100 100	0.32 48 0.007 10.50 75 0.007	300 6 150 0.16 24 0.004 12.00 150 0.002 0.160	0.08 12 0.002 12.00 300 0.003 0.120
2.Display 3.Indications 1.6 Interface Specifications for the GENESY: 1. Remote Voltage Programming (16 bit) Resolution (0.002% of Vo Rated) Accuracy (0.05% of Vo Rated) (*14) 2. Remote Current Programming (16 bit) Resolution (0.002% of lo Rated) Accuracy (0.2% of lo Rated). 3. Readback Voltage Resolution (% of Vo Rated) Resolution (Readback Voltage) Accuracy (0.05% of Vo Rated) 4. Readback Current Resolution (% of lo Rated)	V mV mV mV mA mA mA www.mV mV m	On/Off, C Address s Re-start n Baud rate Voltage: 4 Current: 4 Voltage, (With RS-2 8 0.16 4 0.002 0.16 4	manual ad utput on/election be nodes (au: selection be nodes (au: selection des digits , Ac digits , Ac digits , Ac 2.2 S	djust by Vc off, Re-sta yot Voltage tomatic re : 1200,240 ccuracy: C carm, Fine, 85 Or Op 15 0.3 8 3.00 450 0.007 1.05 8	olt. Adjust rt modes (or currer start, safe 10,4800,96 0.05% of 0.02% of ra Preview, rt tional G 20 0.4 10 0.006 1.20 10 0.009	encoder. (auto, safet) (auto,	e), Foldbacencoder. N 0,200. tput Volt but currel Local, Ou Interface 40 0.8 20 1.20 180 0.003 1.20 20	ck control lumber of lum	CV to CC addresse count. nt. ront Pane ed 80 1.6 40 0.60 90 0.002 1.60 40	1, Go to lock, CV/ 100 2 50 0.48 72 0.011 11.00 50 0.005	150 3 75 0.32 48 0.007 10.50 75	300 6 150 0.16 24 0.004 12.00 150	12 300 0.08 12 0.002 12.00 300
2.Display 3.Indications 1.6 Interface Specifications for the GENESY: 1. Remote Voltage Programming (16 bit) Resolution (0.002% of Vo Rated) Accuracy (0.05% of Vo Rated) (*14) 2. Remote Current Programming (16 bit) Resolution (0.002% of lo Rated) Accuracy (0.2% of lo Rated) Accuracy (0.2% of lo Rated) Accuracy (0.2% of lo Rated) Resolution (% of Vo Rated) Resolution (Readback Voltage) Accuracy (0.05% of Vo Rated) 4. Readback Urrent Resolution (% of lo Rated) Resolution (% of lo Rated) Resolution (Readback Current)	W mV mV mA mA mA mV mA mA	On/Off, C Address s Re-start n Baud rate Voltage: 4 Voltage: 4 Voltage, 6 with RS-2 8 0.16 4 0.002 0.16 4	manual ad utput on/election be nodes (au: selection be digits, A d	djust by Vc off, Re-sta yo Yoltage tomatic re : 1200,240 ccuracy: ccuracy: c larm, Fine, 85 Or Op 15 0.3 8 3.00 450 0.007 1.05 8	olt. Adjust Int modes (or current start, safe (or current start), or current start (or cu	encoder. (auto, safet) ti) adjust en mode). 00 and 15 rated out tited out from the color of the	e), Foldbacencoder. N 2,200. tput Volt but curree Local, Ou Interface 40 0.8 20 1.20 180 0.003 1.20 20 0.003 1.20 1.20 1.20	age ±1 country to the state of	(CV to CC addresse count. nt. ront Pane cd 80 1.6 40 90 0.002 1.60 40 0.004 1.2	100 100 100 100 100 100 100 100 100 100	0.32 48 0.007 10.50 75 0.007	300 6 150 0.16 24 0.004 12.00 150 0.002 0.160	0.08 12 0.002 12.00 300 0.003 0.120
2.Display 3.Indications 1.6 Interface Specifications for the GENESY: 1. Remote Voltage Programming (16 bit) Resolution (0.002% of Vo Rated) Accuracy (0.05% of Vo Rated) (*14) 2. Remote Current Programming (16 bit) Resolution (0.002% of lo Rated) Accuracy (0.2% of lo Rated) Accuracy (0.2% of lo Rated) Resolution (% of Vo Rated) Resolution (% of Vo Rated) Resolution (Readback Voltage) Accuracy (0.05% of Vo Rated) 4. Readback Current Resolution (Readback Current) Accuracy (0.3% of lo Rated) (*13) 5. OVP/UVL Programming Resolution (0.1% of Vo Rated)	W mV mV mA mA mA mV mV mV mV mV mV mV mV	On/Off, C Address s Re-start r Baud rate Voltage: 4 Current: 4 Voltage: 4 Current: 4 Voltage: 4 O.16 4 0.16 4 0.002 0.16 4	manual ad utput on/election be nodes (au: selection be nodes (au: selection des digits , A digits ,	djust by Vc off, Re-sta yot Voltage tomatic re : 1200,240 ccuracy: C carracy: C arm, Fine, 85 Or Op 15 0.3 8 3.00 450 0.007 1.05 8 0.007 10.5 450	olt. Adjust Int modes (or current start, safe 10,4800,960,0.05% of 0,0.05% of 0,0.2% of review, tional G 20 0.4 10 2.40 360 0.006 1.20 10 0.009 10.8 360	encoder. (auto, safett) adjust of mode). 00 and 15 rated outsted outst	e), Foldbacencoder. N D,200. tput Volt D,200. tput Volt Local, Ou Interface 40 0.8 20 1.20 180 0.003 1.20 20 0.002 1.2 180	ck control ck	CV to CC addresse count. nt. ront Pane ad 80 1.6 40 0.60 90 0.002 1.60 40 0.004 1.2 90	0, Go to lock, CV0 100 2 50 0.48 72 0.011 11.00 50 0.005 1.2 72	150 3 75 0.32 48 0.007 10.50 75 0.007 1.120 48	300 6 150 0.16 24 0.004 12.00 150 0.002 0.160 24	12 300 0.08 12 0.002 12.00 300 0.003 0.120 12
2.Display 3.Indications 1.6 Interface Specifications for the GENESY: 1.Remote Voltage Programming (16 bit) Resolution (0.002% of Vo Rated) Accuracy (0.05% of Vo Rated) (*14) 2. Remote Current Programming (16 bit) Resolution (0.002% of lo Rated) Accuracy (0.2% of lo Rated) Accuracy (0.2% of lo Rated) Accuracy (0.2% of lo Rated) Resolution (% of Vo Rated) Resolution (Readback Voltage) Accuracy (0.05% of Vo Rated) 4. Readback Current Resolution (% of lo Rated) Resolution (% of lo Rated) Resolution (Readback Current) Accuracy (0.3% of lo Rated) (*13) 5. OVP/UVL Programming	MV mV mA mA mV mA mA mA	On/Off, C Address s Re-startr Baud rate Voltage: 4 Current: 4 Voltage; 6 With RS-2 8 0.16 4 6 900 0.002 0.16 4	manual ad utput on/election be nodes (au: selection be nodes (au: selection digits, A	djust by Vc off, Re-sta yot Voltage tomatic re : 1200,240 ccuracy: ccuracy: c ccuracy: c ccuracy: 0 arm, Fine, 85 Or Op 15 0.3 8 3.00 450 0.007 1.05 8	olt. Adjust int modes (or current start, safe 0,480,960,005% of 0,05% of 0,02% of rr. Preview, tional G 20 0,4 10 240 360 10 0,006 1,20 10 10 10 10 10 10 10 10 10 10 10 10 10	encoder. (auto, safet) (auto,	e), Foldbacencoder. N 2,200. tput Volt but currell Local, Ou Interface 40 0.8 20 180 1.20 180 1.20 20 1.20 20 1.20 1.20 1.20 1.20 1.	ck control charge ±1 countrol charge ±1 count	(CV to CC addresse count. nt. ront Pane ed 80 1.6 40 90 0.002 1.60 40 0.004 1.2 90	0, Go to lock, CV0 100 2 50 0.48 72 0.011 11.00 50 0.005 1.2 72	0.32 48 0.007 10.50 75 0.007 1.120 48	300 6 150 0.16 24 0.004 12.00 150 0.002 0.160 24	0.08 12 0.002 12.00 300 0.003 0.120 12

- $Minimum\ voltage\ is\ guaranteed\ to\ maximum\ 0.2\%\ of\ rated\ output\ voltage.$ $Minimum\ current\ is\ guaranteed\ to\ maximum\ 0.4\%\ of\ rated\ output\ current.$
- 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 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.

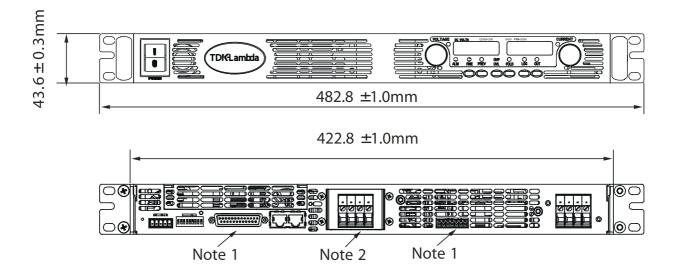
General Specifications Genesys™ 2.4kW

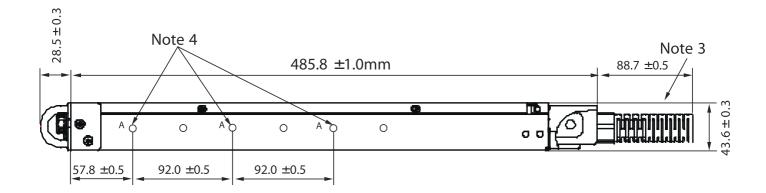
2.1 INPUT CHARACTERISTICS	GEN	8-300	10-240	16-150	20-120	30-80	40-60	60-40	80-30	100-24	150-16	300-8	600-4
		Single Ph	ase.230V r	nodels: 170)~265Vac.	47~63Hz			•				
1. Input voltage/freq. (*3)	VAC	3-Phase, 208V models: 170~265Vac, 47~63Hz											
2. Maximum Single Phase 230V models:							16.6	16.6	16.6	16.6	16.6	16.6	16.6
juliani julian	Α	17.3	17.3	17.3	16.8	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6
at 100% load 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)	0/			ls: 0.99@23	1			1	1			1	0.7
4. Efficiency (*4)	% A	84 Cingle Db	84	86 -Phase 208	86 V models	86	88	88	88	88	88	88	87
2.2 POWER SUPPLY CONFIGURATION	А	Single-Ph	ase and 3	-Phase 208	v models:	Less than :	DUA						
1. Parallel Operation		Un to 4 id	entical un	its in mast	ar/clave m	odo							
2. Series Operation				its. with ex			Max to Cha	assis arour	nd				
2.3 ENVIRONMENTAL CONDITIONS		op to 2 iu	Critical ari	its. With CA	terrial alo	uc3.000v1	viax to Cit	13313 GIOUI	iu				
1. Operating temp		0~50°C.1	00% load.										
2. Storage temp		-20~85°C											
3. Operating humidity		20~90% F	RH (non-co	ondensing)									
4. Storage humidity				ondensing)	-								
5. Vibration				14.5 , The E		to the vib	rating sur	face.					
6. Shock		Less than	20G, half	sine , 11mS	ec. Unit is	unpacked							
7 Alaiad.		Operating	g: 10000ft	(3000m), D	erate outp	ut current l	oy 2%/100	m above 20	000m, Alte	rnatively, d	erate max	mum amb	ient temp.
7. Altitude				2000m. N									
8. RoHS Compliance		Complies	with the r	equiremer	nts of RoHS	directive.							
2.4 EMC													
1.Applicable Standards:													
2.ESD				ch8KV, co	ntact disc	h4KV							
3.Fast transients		IEC1000-4											
4.Surge immunity		_		ne to line, 2	KV line to	ground							
5.Conducted immunity		IEC1000-4											
6.Radiated immunity		IEC1000-4	-,										
7.Magnetic field immunity			4-8, 1A/m										
8.Voltage dips		EN61000-											
9.Conducted emission				t 15-A, VCC									
10. Radiated emission		EN55022 <i>F</i>	A, FCC par	t 15-A, VCC	I-A.								
2.5 SAFETY		111 60050	1 (())	2 N= C005	0.1150.00	050 1 FN 6	0050.1				-	-	
1.Applicable standards:				.2 No. 6095 0V: Outpu				ntral intar	faces DC2	22/40E IEE	E Isolatos	Analog I	ANI Conso
				ing and Mo						32/403, IEE	E, ISOIateo	Analog,L/	an, sense,
										es: RS232/	485 IFFF I	solated An	alog I AN
2.Interface classification		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,											
				Programn									
				put-Outpu									
		Input-Gro	ound: 2828	BVDC 1min.	, Output/c	ommunica	tion/cont	rol/auxilia	ry outputs	(SELV)-Gro	ound: 1000	VDC 1min.	
			100V mod										
				l.c. auxiliar									
				on/control/ :-commun									
3.Withstand voltage				ntrol (Haza								a.c. aaxiiia	i y output/
		1001/ 1/01/	t 600V mo	dale									
				l.c. auxiliar	v output/c	ommunica	ation/cont	rol (Hazaro	dous): 4000	OVDC 1min			
		Input-con	nmunicati	on/control/	5V d.c. aux	iliary outpu	ut (SELV): 4	242VDC 1m	nin, Output	/15V d.c. au	ixiliary out	put/comm	unication/
		control (H	azardous)	:-commun	ication/co	ntrol/5V d.o	.auxiliary	output (SE	LV): 3550V	DC 1min, O	utput/15V	d.c. auxilia	ry output/
				ntrol (Haza		round: 267	OVDC 1mii	n,					
3.Insulation resistance		<u> </u>		BVDC 1min.									
2.6 MECHANICAL CONSTRUCTION		Iwore that	i ioowon	m at 25°C,	/U% KH.								
1. Cooling		Forced air	r flow: from	n front to r	ear No ve	ntilation h	oles at the	ton or hot	tom of the	chassis V	ariahle fan	sneed	
2. Dimensions (WxHxD)				nm, D: 441r						. ciiussis, V	and DIC Idli	specu.	
3. Weight		Less than	,	, 0. 7711	(CACIUI	aning confine		, 1101					
				nodels, Po	wer Comh	icon PC 6-1	6/3-GF-10	.16 series	with Strain	relief.			
4. AC Input connector (with Protective Cove	er)			OV models,					-				
5.Output connectors				Bus-bars (h							hoenix P/I	N: FRONT-4	I-H-7.62
2.7 AUXILARY OUTPUTS		,		(1		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							
1. 15V Output (*8)		15V± 5%	0.2A Max	Load, Ripp	le & Noise	100mVn-n	. reference	ed internal	ly to the n	egative ou	tput poter	itial.	
2.5V Output				oad, Ripple									
2.8 RELIABILITY SPECS		, 5 , 0 , 0		,,					,001	p = 1011010			
1. Warranty		5 years.									-		
All specifications subject to change without	t notice			-									

All specifications subject to change without notice.

TDK·Lambda

Outline Drawing Genesys™ 2.4kW Units





NOTE

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

TDK·Lambda

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.









P/N: IEEE

Programming Options (Factory installed)

Digital Programming via IEEE Multi-Drop Interface

- 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. Power supply Voltage and Current Programming Accuracy $\pm 1\%$ Power supply Voltage and Current Monitoring Accuracy $\pm 1.5\%$

Current Programming with 4-20mA signal.
 Power supply Voltage and Current Programming Accuracy ±1%
 Power supply Voltage and Current Monitoring Accuracy ±1.5%

P/N: IS510

P/N: IS420

LAN Interface **L** Compliant to Class C

- Meets all LXI-C Requirements
- Address Viewable on Front Panel
- Fixed and Dynamic Addressing
- Compatible with most standard Networks

P/N: LAN

- 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	Output	Output	Option: IEEE	1P230 (Single Phase 170~265VAC)
Name	Voltage	Current	IS510	3P208 (Three Phase 170~265VAC)
	(0~8V	(0~300A)	IS420	
			ΙΔΝ	

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

P/N **Factory option** 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



Also available, Genesys™ 1U Half Rack 750W **1U full Rack** 750W/1500W/2400W **2U full Rack 3300W/5000W**

GLOBAL NETWORK

TDK·Lambda

NORTH AMERICA

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

www.us.tdk-lambda.com/hp

UK

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

FRANCE

TDK-Lambda France SAS ZAC des Delaches BP 1077 - Gometz le Chatel 91940 LES ULIS Tel: +33 1 60 12 71 65 Fax: +33 1 60 12 71 66 E-mail: france@fr.tdk-lambda.com www.fr.tdk-lambda.com

GERMANY

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

AUSTRIA

TDK-Lambda Austria Sales Office Aredstrasse 22, A - 2544 Leobersdorf, Austria Tel: +43-2256-65584 Fax: +43-2256-64512 E-mail: info.germany@de.tdk-lambda.com www.de.tdk-lambda.com

ITALY

TDK-Lambda Italy Sales Office
France Sas Succursale Italiana
Via dei Lavoratori 128/130
IT 20092 Cinisello Balsamo, Milano, Italy
Tel: +39-02-6129-3863 Fax: +39-02-6129-0900
E-mail: info.italia@it.tdk-lambda.com
www.it.tdk-lambda.com

ISRAEL

TDK-Lambda Ltd.
Sales Office: Kibbutz Givat Hashlosha Tel-Aviv 4880000, Israel Tel: +972-3-9024-333 Fax: +972-3-9024-777
Plant: 56 Haharoshet St.,
Karmiel Industrial Zone 2165158, Israel
Tel: +972-4-9887-491 Fax: +972- 4-9583-071
www.tdk-lambda.co.il E-mail: info@tdk-lambda.co.il

JAPAN

TDK-Lambda Corporation International Sales Divison Nittetsu Bldg. 6F, 1-13-1 Nihonbashi, Chuo-ku, Tokyo 103-0027, Japan Tel: +81-3-5201-7175

Fax: +81-3-5201-7287 www.tdk-lambda.com

CHINA

Shanghai Branch of Wuxi TDK-Lambda Electronic Co. Ltd. 28F, Xingyuan Technology Building No.418, Guiping Road, Shanghai, China 200233
Tel: +86-21-6485-0777 Fax: +86-21-6485-0666
www. cn.tdk-lambda.com

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

Shenzhen Branch of Wuxi TDK-Lambda Electronics Co.Ltd. Room 4302, Excellence Times Square Building, 4068 Yi Tian Road, Futian District, Shenzhen, China 518048 Tel: +86 -755-83588261 Fax: +86 -755-83588260 www. cn.tdk-lambda.com

KOREA

TDK-Lambda Corporation Seoul Office 8F Songnam Bldg, 1358-6, Seocho-Dong, Seocho-Gu, Seoul, 137-862 KOREA Tel: +82-2-3473-7051 Fax: +82-2-3472-9137 www.tdk-lambda.co.kr

SINGAPORE

TDK-Lambda Singapore Pte.Ltd. Blk 1008 Toa Payoh North # 07-01/03 Singapore 318996 Tel: +65-6251-7211 Fax: +65-6250-9171 www.tdk-lambda.com.sg

INDIA

TDK-Lambda Bangalore Office
TDK - LAMBDA Singapore Pte Ltd (India Branch)
No.989, 1st Cross, 2nd Floor, 13th Main,
HAL 2nd Stage, Bangalore, Karnataka, India – 560 008
Tel: +91-80-43550 500
Fax: +91-80-43550 501
www.tdk-lambda.com.sg

MALAYSIA

TDK-Lambda Malaysia Sdn. Bhd. c/o TDK (Malaysia) Sdn Bhd Lot 709, Nilai Industrial Estate 71800 Nilai Negeri Sembilan, Malaysia Tel: + 60 6-799 1130 Fax: + 60 6 799 3277 www.tdk-lambda.com.my



TDK-Lambda EMEA www.emea.tdk-lambda.com