Improved ons

# Genesys™

Programmable DC Power Supplies
750W/1500W in 1U
Built in RS-232 & RS-485 Interface
Advanced Parallel Operation
Optional Interface:
LXI Compliant LAN
IEEE488.2 SCPI (GPIB) Multi-drop
Isolated Analog Programming



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: 1500W in 1U
- Wide Range Input (85 265Vac Continuous, single phase, 47/63Hz)
- Active Power Factor Correction (0.99 typical)
- Output Voltage up to 600V, Current up to 200A
- Built-in RS-232/RS-485 Interface Standard
- Last-Setting Memory
- Global Commands for Serial RS-232/RS-485 Interface
- Front Panel Lock selectable from Front Panel or Software
- High Resolution 16 bit ADCs & DACs
- Reliable Encoders for Voltage and Current Adjustment
- Constant Voltage/Constant Current auto-crossover
- Advanced Parallel reports total current up to four identical units
- Independent Remote ON/OFF and Remote Enable/Disable
- External Analog Programming and Monitoring (user selectable 0-5V & 0-10V)
- Reliable Modular and SMT Design
- 19" Rack Mounted ATE and OEM applications
- Optional Interfaces

Isolated Analog Programming and Monitoring Interface (0-5V/0-10V & 4-20mA) IEEE 488.2 SCPI (GPIB) Multi-Drop

LXI Compliant LAN Interface

- LabWiew® and LabWindows® drivers
- Five Year Warranty

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





# **Applications**

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

Common controls are shared all Genesys™ Series.

#### **Test and Measurement**

Last-Setting memory simplifies test design and requires no battery backup.

Built-in RS-232/RS-485 gives maximum system flexibility along with 0-5V and 0-10V, selectable analog programming. Wide range of available inputs allows testing of many different devices.

#### Semiconductor Burn-in

Safe-Start may be ENABLED to re-start at Output OFF to protect load.

Wide range input (85-265Vac) with Active Power Factor correction rides through input transients easily.

#### **Component Test**

High power density, zero stacking and single wire parallel operation give maximum system flexibility.

#### **Laser Diode**

OVP is directly set on Voltage Display, assuring accurate protection settings.

Current Limit Fold Back assures load is protected from current surges.

# **Heater Supplies**

Smooth, reliable encoders enhance front panel control.

Remote analog programming is user selectable 0-5V or 0-10V.

# **RF Amplifiers and Magnets**

Robust design assures stable operation under a wide variety of loads.

High linearity in voltage and current mode.

# **Front Panel Description**



- 1. AC ON/OFF Switch
- 2. Air Intake allows zero stacking for maximum system flexibility and power density.
- 3. Reliable encoder controls Output Voltage and sets Address.
- 4. Volt Display shows Output Voltage and directly displays OVP, UVL and Address settings.
- 5. Reliable encoder controls Output Current, sets baudrate and Advanced Parallel mode.
- 6. Current Display shows Output Current and displays baudrate.
- 7. Function/Status LEDs:
- Alarm
- Foldback Mode
- Fine Control
- Remote Mode
- Preview Settings
- Output On
- 8. Pushbuttons allow flexible user configuration
  - Coarse and Fine adjustment of Output Voltage/Current and Advanced Parallel Master or Slave
  - Preview settings and set Voltage/Current with Output OFF, Front Panel Lockout
  - Set OVP and UVL Limits
  - Set Current Foldback
  - Local/Remote Mode and select Address and Baudrate
  - Output ON/OFF and Auto-Start/Safe-Start Mode

# **Rear Panel Description**



- 1. Remote/Local Output Voltage Sense Connections.
- 2. DIP Switches select 0-5V or 0-10V Programming and other functions.
- 3. DB25 (Female) connector allows (Non-isolated) Analog Program and Monitor and other functions.
- 4. RS-485 OUT to other Genesys™ Power Supplies.
- 5. RS-232/RS-485 IN Remote Serial Programming.
- 6. Output Connections: Rugged busbars for up to 60V Output; wire clamp connector for Outputs >60V.
- 7. Exit air assures reliable operation when zero stacked.
- 8. Wide-Range Input 85-265VAC continuous, 47/63Hz with Active Power Factor Correction (0.99 typical). AC Input Connector: 750W (IEC320), 1500W (screw terminal-shown).
- 9. Optional Interface Position for IEEE 488.2 SCPI (shown) or Isolated Analog Interface or LAN Interface.

# TDK-Lambda

# Genesys ™ 750W/1500W Specifications

										Chacif	ication			nproved		150011
1.0 MODEL	GEN	6-200	8-180	12.5-120		30-50	40-38	50-30	60-25					600-2.6		X
1. Rated output voltage (*1)	V	6	8	12.5	20	30	40	50	60	80	100	150	300	600		X
2. Rated Output Current (*2) 3. Rated Output Power	A W	200 1200	180 1440	120 1500	76 1520	50 1500	38 1520	30 1500	25 1500	19 1520	15 1500	10 1500	1500	2.6 1560		X
4. Efficiency at 100/200Vac (*3)	%	77/79	78/81	82/85	83/86	83/86	84/88	84/88		84/88	84/88		84/88			X
1.0 MODEL	GEN	6-100	8-90	12.5-60	20-38	30-25	40-19		60-12.5	80-9.5	100-7.5	150-5	300-2.	5 600-1.3	Х	
1. Rated output voltage (*1)	V	6	8	12.5	20	30	40		60	80	100	150	300	600	X	
2. Rated Output Current (*2)	A W	100 600	90 720	750	38 760	25 750	19 760		750	9.5 760	7.5 750	5 750	750	780	X	
3. Rated Output Power 4. Efficiency at 100/200Vac (*3)	- VV - %	76/78		81/84	82/85		83/87		83/87	83/87	83/87	83/87	83/87		X	
1.1 CONSTANT VOLTAGE MODE	1 /0	170/70	177700	101/01	02/03	02/03	1 03/07		1 03/07	1 03/07	03/07	03/07	1 03/07	1 03/07		
1. Max.line regulation (0.01% of Vo+ 2mV)(*4)	mV	2.6	2.8	3.3	4	5	6	7	8	10	12	17	32	62	Х	X
2. Max load regulation (0.01% of Vo+2mV)(*5)	mV	2.6	2.8	3.3	4	5	6	7	8	10	12	17	32	62	X	X
3. Ripple and noise p-p 20MHz (*9)	mV	60	50	60	60	50	60	40	60	75	75	75	130	300	X	X
4. Ripple r.m.s 5Hz~1MHz (*9) 5. Remote sense compensation/line	mV V	8	1	7	7.5 1	1.5	2	5	3	7	- 8 - 5	5	20 5	60 5	X	X
6. Temp. coefficient		C 50PPM	/°C of ra	ted outp	ut volta										X	X
7. Temp. stability	%	0.01%	of rated	lout o	er 8hrs					arm-up.					Х	X
8. Up-prog. response time, 0~Vo Rated 9. Down-prog response time full-load	mS mS	80mS, 10	N.L/F.L, r	esistive 50	load			80		150mS,	N.L/F.L,	<u>resistiv</u> 50	e load	250 250	X	X
10. Down-prog response time No-load	mS	500	600	700	800	900	1000	1100	1100	1200	1500	2000	2500	4000	X	X
11. Transient response time (*8)	mS		an 1mSe										1 2500	1 1000	X	X
12. Temp. drift	%	0.01%	of rated \	out ove	r 8hrs in	terval fo	ollowing	30 min	utes wa	rm up. Co	onstant	line, loa	ıd & tem	ıp.	X	Х
1.2 CONSTANT CURRENT MODE																
1. Max.line regulation (0.01% of lo+ 2mA)(*4)	mA	12	11	8.0	5.8	4.5	3.9		3.25	2.95	2.75	2.5	2.25	2.13	X	
2. Max.load regulation (0.02% of lo+5mA)(*6) 3. Ripple r.m.s 5Hz~1MHz . (*7)	mA mA	25 190	23 160	17	12.6 50	10 45	8.8		7.5	6.9	6.5	6.0	5.5	5.26 4	X	_
4. Max.line regulation (0.01% of lo+ 2mA)(*4)	mA	22	20	14	9.6	7.0	5.8	5	4.5	3.9	3.5	3.0	2.5	2.26	^	Х
5. Max.load regulation (0.02% of lo+5mA)(*6)	mA	45	41	29	20.2	15	12.6	11	10	8.8	8.0	7.0	6.0	5.52		Х
6. Ripple r.m.s 5Hz~1MHz .(*7) 7. Temp. coefficient	mA	350	300	210	120	60	65	60	60	40	20	15	15	7	Y	X
8. Temp. drift	PPIVI/ 1		/°C from of rated \								onstant	line loa	d & tem	ın	X	X
9. Warm up drift	%		an 0.1% r												X	X
1.3 PROTECTIVE FUNCTIONS																
1. OCP			% Consta												X	X
2. OCP Foldback			t shut do												X	X
3. OVP type 4. OVP trip point			r shut-do / 0.5~10V												X	X
5. Over Temp Protection			lectable					J3/ V	J00V	J00V	J110V	J105V	133301	/   3 - 000 V	X	X
1.4 ANALOG PROGRAMMING AND MONITORIN	ıG			,											•	
1. Vout Voltage Programming			%, 0~5V												X	X
2. lout Voltage Programming			%, 0~5V												X	X
3. Vout Resistor Programming		10~1009	%,0~5/10	UKohm t	ull scale	user sel,	lectAcc	uracv a	nd linea	ritv: +/-1'	% of rate	tiioV he				
14 Jout Resistor Programming		0~1000	% 0~5/10	0Kohm f	ull scale	user sel	lect Acc	uracy a	nd linea	rity: +/-1	5% of ra	ted lou	t t		X	
4. lout Resistor Programming 5. On/Off control (rear panel)		0~1009	%, 0~5/10 trical. Vo	<u>0Kohm f</u>	ull scale	user sel	lect. Acc	uracý a	nd linea	ritý: +/-1.	.5% of ra	ited lou	t.			X
5. On/Off control (rear panel) 6. Output Current monitor		0~1009 By elec	%, 0~5/10 trical. Vo or 0~10V,	0Kohm f oltage: 0 accurac	ull scale ~0.6V/2 y: 1%, us	<u>,user sel</u> ~15V, or ser selec	lect. Acc dry con table	uracý a	nd linea	ritý: +/-1.	.5% of ra	ited lou	t.		X	X X X
5. On/Off control (rear panel) 6. Output Current monitor 7. Output Voltage monitor		0~1009 By elec 0~5V o 0~5V o	%, 0~5/10 trical. Vo or 0~10V, or 0~10V,	0Kohm f oltage: 0 accurac accurac	ull scale ~0.6V/2 y: 1%, us y: 1%, us	user sel ~15V, or ser selec ser selec	lect. Acc dry con table table	uracý a tact, us	nd linea	ritý: +/-1.	.5% of ra	ited lou	t.		X X X X	X X X X
5. On/Off control (rear panel) 6. Output Current monitor		0~1009 By elect 0~5V o 0~5V o TTL hic	%, 0~5/10 trical. Vo or 0~10V,	OKohm f oltage: 0- accurac accurac ) -OK, 0V	ull scale ~0.6V/2 y: 1%, us y: 1%, us /-Fail 500	user sel 15V, or ser selec ser selec Oohm se	lect. Acc dry con table table eries resi	uracý a tact, us stance	nd linea er select	ritý: +/-1. able logi	5% of ra	ited lou	t.	mA	X X X X X	X X X X X
5. On/Off control (rear panel) 6. Output Current monitor 7. Output Voltage monitor 8. Power Supply OK signal 9. CV/CC indicator 10. Enable/Disable		0~1009 By elect 0~5V o 0~5V o TTL hic Open c Dry coi	%, 0~5/10 etrical. Vo or 0~10V, or 0~10V, oh (4~5V) collector, ntact. Op	OKohm foltage: 0- accurac accurac accurac ) -OK, 0V CC mod ben: off, 1	ull scale ~0.6V/2 y: 1%, us y: 1%, us /-Fail 500 le: On, C Short: oi	,user sel ~15V, or ser selec ser selec Johm se V mode n. Max. v	lect. Acc dry con table table eries resi : Off, Ma voltage a	uracý a tact, us stance sximum at Enab	nd linea er select voltage: le/Disab	ritý: +/-1. able logi : 30V, ma le in: 6V	.5% of rac	sink cur	t.	mA	X X X X X X	X X X X X X
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5. On/Off control (rear panel) 6. Output Current monitor 7. Output Voltage monitor 8. Power Supply OK signal 9. C.Y/CC indicator 10. Enable/Disable 11. Local/Remote analog control 11. Local/Remote analog control indicator 1.5 FRONT PANEL 1. Control functions  2. Display 3. Indications 1.6 Interface RS-232&RS-485 or Optional GPIB. Model 1. Remote Voltage Programming (16 bit)	V	0~1009 By elec 0~5V o 0~5V o 0~5V o TTL hic Open c Dry coi By elec Open c Vout/lc OVP/U AC on/n Addres RS232/ Baudra Voltagi Curren Voltagi terface 6	/%, 0~5/11/ trical. Vc tr 0~10V, tr 0~10V, tr 0~10V, tr 0~10V, tr 0~10V, trical sig collector, trical sig collector trical s	OKohm follage: 0. accurace accurace O-OK, OV CC mode Den: off, or Local: C	'ull scale	"user sel "15V, or "1	lect. Acc dry con: table table tries resi: c Off, Ma voltage a 6V or sh nn. Maxir ncoders encode es (auto, t) adjust EEE enal 600 and bunt int Foldback	stance existence with the standard stan	voltage. le/Disab. note, 2~ ltage: 30 and fine oldback. er. Numl. ch and C	adjustm adjustm control (per of ad lP switch	ximum  pen: Loc num sin  ent sele CV to Co dresses:	sink cur al. k currer ectable) C), Go to 31	rent: 10	ontrol	X X X X X X X X X X X X X X X X X X X	X
5. On/Off control (rear panel) 6. Output Current monitor 7. Output Voltage monitor 8. Power Supply OK signal 9. C.V/CC indicator 10. Enable/Disable 11. Local/Remote analog control 12. Local/Remote analog control indicator 1.5 FRONT PANEL  1. Control functions  2. Display 3. Indications 1.6 Interface RS-232&RS-485 or Optional GPIB Model 1. Remote Voltage Programming (16 bit) Resolution (0.02% of Vo Rated) Accuracy 0.05%Vo Rated Output Voltage (*11) 2. Remote Current Programming (16 bit)	MV mV	0~1009 By elect 0~5V o 0~5V o 1TL hig Open c Dry cor By elect Open c Vout/Ic OVP/U AC on// Address RS232// Baudra Voltage terface  0.12 3.0	/w, 0~5/11  /w, 0~5/11  /w, 0~5/11  /w, 0~10	OKohm foltage: 0. altage: 0. accurac accurac ) - OK, OV CC moc oen: off, nal or O Local: C  al adjust out on/ol on by Vc IEEE488 ion: 120 j., accura t, Alarm  12.5	'ull scale ~0.6V/2· y: 1%, us y: 1%,	Juser sel15V, or iver select of the selec	lect. Acc dry con table	stance stance siximum st Enablo ort: Rer mum vo (coarse f ssafe), F e encod ole swit 19,200  50  1.0  25	voltage: e/Disab note, 2~ can dinea and fine oldback er. Number of and Double of a second of a second oldback er. Number oldbac	30V, ma 30V, ma e in: 6V ISV or op IV, maxin adjustm control ( cer of ad IIP switch On, Fron	ximum  pen: Loc num sin tent sele CV to CC dresses: 1 100 2.0	sink cur al. k currer ectable) C), Go to 31 Lock	nt: 5mA.	600   12.0   300	X	X
5. On/Off control (rear panel) 6. Output Current monitor 7. Output Voltage monitor 8. Power Supply OK signal 9. C.Y/CC indicator 10. Enable/Disable 11. Local/Remote analog control 12. Local/Remote analog control indicator 1.5 FRONT PANEL 1. Control functions  2. Display 3. Indications 1.6 Interface RS-232&RS-485 or Optional GPIB. Model 1. Remote Voltage Programming (16 bit) Resolution (0.02% of Vo Rated) Accuracy 0.05%Vo Rated Output Voltage (*11) 2. Remote Current Programming (16 bit) Resolution (0.002% of lo Rated)	mV mV	0~1009 By electory 0~5V of TTL hickory Open Correctory Dry correctory By electory Open Correctory AC on/Address RS232/Baudra Voltage Curren Voltage terface 0.12 3.0	/w, 0~5/11 /w, 0~5/11 /w, 0~5/11 /w, 0~10V, 10 /w, 0~10V,	OKohm folitage: 0. accurac accuracy acc	'ull scale	.user sel15 V, or -15 V, or -16 V, or -16 V, or -16 V, or -17 V, or -18 V	lect. Acc dry con table	stance stance stance sximum st Enablort: Rer num vo (coarse safe), F c encod- ole swit 19,200  1,0 25	voltage e/Disab note, 2~ coltage e/Disab note,	30V, mae in: 6V 30V, mae in: 6V Sty or op op V, maxir adjustm control (oper of ad all P switc) 0n, Fron 80 1.6 40	ximum pen: Loc mum sin pent sele CV to Co dresses: 1 100 2.0 50 0.15	ssink cur al. k currer cctable) 	rent: 100 nt: 5mA. 0 local co	600   12.0   300	X	X
5. On/Off control (rear panel) 6. Output Current monitor 7. Output Voltage monitor 8. Power Supply OK signal 9. C.V/C indicator 10. Enable/Disable 11. Local/Remote analog control 12. Local/Remote analog control indicator 1.5 FRONT PANEL 1. Control functions  2. Display 3. Indications 1.6 Interface RS-232&RS-485 or Optional GPIB Model 1. Remote Voltage Programming (16 bit) Resolution (0.02% of Vo Rated) Accuracy 0.05%Vo Rated Output Voltage (*11) 2. Remote Current Programming (16 bit) Resolution (0.002% of lo Rated) Accuracy (0.0% of lo Rated) Accuracy (0.0% of lo Rated)	V   mV   mV   mA   mA   mA   mA   mA	0~1009 By electory 0~5V of the properties of the	/w, 0~5/11 /w, 0~5/11 /w, 0~5/11 /w, 0~10V, yr 0~10V, yr 0~10V, yollector, ntact. Optitrical sig collector, out manu VL manu vVL	OKohm folitage: 0. accurac accurac ) -OK, Ov CC mod oen: off, inal or O Local: C  ual adjust al adjust out on/of on by Vo IEEE488 ion: 120  12.5  6.3	'ull scale	.user selection - 15V, or	lect. Acc dry con table	stance st	voltage: le/Disab mote, 2~ ltage: 3( and fine oldback er. Numb ch and E  Output  1.2 30  0.25	30V, mae in: 6V adjusted adjus	siximum sinimum sinimu	sink cur al. k currer ctable)  150  150  150  1010  1010	rent: 10  ht: 5mA.   300    6,0    150    0.05    5,0	600   12.0   300   0.03   2.6	X	X
5. On/Off control (rear panel) 6. Output Current monitor 7. Output Voltage monitor 8. Power Supply OK signal 9. C.Y/CC indicator 10. Enable/Disable 11. Local/Remote analog control 12. Local/Remote analog control indicator 1.5 FRONT PANEL 1. Control functions  2. Display 3. Indications 1.6 Interface RS-232&RS-485 or Optional GPIB. Model 1. Remote Voltage Programming (16 bit) Resolution (0.02% of Vo Rated) Accuracy 0.05%Vo Rated Output Voltage (*11) 2. Remote Current Programming (16 bit) Resolution (0.002% of lo Rated)	V	0~1009 By electory 0~5V of TTL hickory Open Correctory Dry correctory By electory Open Correctory AC on/Address RS232/Baudra Voltage Curren Voltage terface 0.12 3.0	/w, 0~5/11 /w, 0~5/11 /w, 0~5/11 /w, 0~10V, 10 /w, 0~10V,	OKohm folitage: 0. accurac accuracy acc	'ull scale	.user sel15 V, or -15 V, or -16 V, or -16 V, or -16 V, or -17 V, or -18 V	lect. Acc dry con table	stance stance stance sximum st Enablort: Rer num vo (coarse safe), F c encod- ole swit 19,200  1,0 25	voltage e/Disab note, 2~ coltage e/Disab note,	30V, mae in: 6V 30V, mae in: 6V Sty or op op V, maxir adjustm control (oper of ad all P switc) 0n, Fron 80 1.6 40	ximum pen: Loc mum sin pent sele CV to Co dresses: 1 100 2.0 50 0.15	ssink cur al. k currer cctable) 	rent: 100 nt: 5mA. 0 local co	600   12.0   300	X	X
5. On/Off control (rear panel) 6. Output Current monitor 7. Output Voltage monitor 8. Power Supply OK signal 9. CV/CC indicator 10. Enable/Disable 11. Local/Remote analog control 12. Local/Remote analog control indicator 1.5 FRONT PANEL  1. Control functions  2. Display 3. Indications 1.6 Interface RS-232&RS-485 or Optional GPIB Model 1. Remote Voltage Programming (16 bit) Resolution (0.02% of Vo Rated) Accuracy 0.05%Vo Rated Output Voltage (*11) 2. Remote Current Programming (16 bit) Resolution (0.002% of lo Rated) Accuracy (0.1% of lo Rated)	V	0~1009 By elect 0~5V o 0~5V o 0~5V o 1TL hig Open c 0 ope	/w, 0~5/11  /w, 0~5/11  /w, 0~5/11  /w, 0~5/11  /w, 0~10  /w, 0~10	OKohm folitage: 0 accurac, occuracy of the limit of the l	ull scale	.user sel -15V, or -15V,	lect. Acc dry con table	uracý a tact, usi stance stance stance iximum at Enablo ort: Rer mum vo (coarse r safe), F encod le switt 19,200	voltage: e/Disab mote, 2~ oltage: and fine oldback er. Numb ch and D  Output  60  1.2 30  0.25 0.50	30V, mae in: 6V is on the in: 6V is on t	symmetric selection of the control o	150	300   6.0   150   5.0   0.10	600   12.0   300   0.03   2.6   0.05	X	X
5. On/Off control (rear panel) 6. Output Voltage monitor 7. Output Voltage monitor 8. Power Supply OK signal 9. C.Y/CC indicator 10. Enable/Disable 11. Local/Remote analog control 11. Local/Remote analog control indicator 1.5 FRONT PANEL 1. Control functions  2. Display 3. Indications 1.6 Interface RS-232&RS-485 or Optional GPIB. Model 1. Remote Voltage Programming (16 bit) Resolution (0.02% of Vo Rated) Accuracy 0.05%Vo Rated Output Voltage (*11) 2. Remote Current Programming (16 bit) Resolution (0.002% of lo Rated) Accuracy (0.1% of lo Rated+0.1% of lo Actual Output)(*10 Resolution (0.002% of lo Rated) Accuracy (0.1% of lo Rated+0.1% of lo Actual Output)(*10 3. Readback Voltage)	MV mV mA mA mA	0~1009 By elect 0~5V o 0~5V o 0~5V o 0~5V o Dry col By elect Open c 0 o 0 o 0 o 0 o 0 o 0 o 0 o 0 o 0 o 0 o	1.80	OKohm folkom fol	ull scale ~0.6V/2 y: 1%, us pen/Sho pen, Re st by Volt ff, Re-st o) 2400, o; 0.058 o; 0.2% pine, Pi  0.4 10 0.76 76 1.52	.user selection of the control of th	lect. Acc dry con table	uracý a tact, usi stance stance sximum tt Enabi cort: Rer num vo (coarse r safe), F safe), F safe), S	voltage: e/Disab note, 2 ~	30V, mae in: 6V is on the solution of the solu	xximum ben: Loc num sin lent selectors of the selectors o	150   3.0   75   0.10   10   0.20   20	300   6.0   150   0.05   5.0   0.10   10	600   12.0   300   0.03   2.6   0.05   5.2	X	X
5. On/Off control (rear panel) 6. Output Current monitor 7. Output Voltage monitor 8. Power Supply OK signal 9. CV/CC indicator 10. Enable/Disable 11. Local/Remote analog control 12. Local/Remote analog control indicator 1.5 FRONT PANEL  1. Control functions  2. Display 3. Indications 1.6 Interface RS-232&RS-485 or Optional GPIB Model 1. Remote Voltage Programming (16 bit) Resolution (0.02% of Vo Rated) Accuracy 0.05%Vo Rated Output Voltage (*11) 2. Remote Current Programming (16 bit) Resolution (0.002% of lo Rated) Accuracy (0.1% of lo Rated)	V	0~1009 By elect 0~5V o 0~5V o 0~5V o 1TL hig Open c 0 ope	/w, 0~5/11  /w, 0~5/11  /w, 0~5/11  /w, 0~5/11  /w, 0~10  /w, 0~10	OKohm folitage: 0 accurac, occuracy of the limit of the l	ull scale	user selection - 15V, or -	lect. Acc dry con table	uracý a tact, usi stance stance stance sximum st Enab ort: Rer safe), F encod 19,200 50 1.0 25	voltage: e/Disab mote, 2~ oltage: and fine oldback er. Numb ch and D  Output  60  1.2 30  0.25 0.50	30V, mae in: 6V is on the in: 6V is on t	symmetric selection of the control o	150	300   6.0   150   5.0   0.10	600   12.0   300   0.03   2.6   0.05	X	X
5. On/Off control (rear panel) 6. Output Current monitor 7. Output Voltage monitor 8. Power Supply OK signal 9. C.Y/CC indicator 10. Enable/Disable 11. Local/Remote analog control 12. Local/Remote analog control indicator 1.5 FRONT PANEL 1. Control functions  2. Display 3. Indications 1.6 Interface RS-232&RS-485 or Optional GPIB. Model 1. Remote Voltage Programming (16 bit) Resolution (0.02% of Vo Rated) Accuracy 0.05%Vo Rated Output Voltage (*11) 2. Remote Current Programming (16 bit) Resolution (0.002% of lo Rated) Accuracy (0.1% of lo Rated+0.1% of lo Actual Output)(*16 Resolution (0.002% of lo Rated) Accuracy (0.1% of lo Rated+0.1% of lo Actual Output)(*16 Resolution of Vo Rated) Resolution of Vo Rated Accuracy 0.05% Vo Rated Accuracy 0.05% Vo Rated	V	0~1009 By elect 0~5V o 0~5V o 0~5V o 0~5V o TTL hic Open c Dry col By elect OyP/U AC on/Addres RS232/ Baudra Voltage Curren Voltage terface  0.12 3.0  2.00 4.0 400	1.80	OKohm folitage: 0.  OKohm folitage: 0.  accurac  o - OK, OV  CC moo  cen: off, inal or O  Local: C  ual adjust out on/oi on by Vo  IEEE488 ion: 120  12.5  1.20  1.20  2.40  1.125	ull scale   ~0.6V/2· y: 1%, us   y: 1%, us	.user sel - 15V, or - 15V,	lect. Acc dry con table	uracý a tact, usi stance stance sximum tt Enabi cort: Rer num vo (coarse r safe), F safe), F safe), S	voltage le/Disab note, 2~ consoler select voltage le/Disab note, 2~ consoler select le/Disab note, 2~ consol	30V, ma e in: 6V   15V or op v. maxim adjustm   200	ximum.  ven: Loc CV to CC  tit Panel  100  2.0 50  0.15 15 0.30 30	sink cur al. k currer cctable) 	rent: 10: nt: 5mA.    300   6.0   150     0.05   5.0   0.10     12	600   12.0   300   0.03   2.6   0.05   5.2	X	X
5. On/Off control (rear panel) 6. Output Current monitor 7. Output Voltage monitor 8. Power Supply OK signal 9. C.V/C indicator 10. Enable/Disable 11. Local/Remote analog control 12. Local/Remote analog control indicator 1.5 FRONT PANEL 1. Control functions  2. Display 3. Indications 1.6 Interface RS-232&RS-485 or Optional GPIB Model 1. Remote Voltage Programming (16 bit) Resolution (0.02% of Vo Rated) Accuracy 0.05%Vo Rated Output Voltage (*11) 2. Remote Current Programming (16 bit) Resolution (0.002% of lo Rated) Accuracy (0.1% of lo Rated) Accuracy (0.1% of lo Rated) Accuracy (0.1% of lo Rated+0.1% of lo Actual Output)(*10 Resolution (0.002% of lo Rated) Accuracy (0.1% of lo Rated+0.1% of lo Actual Output)(*10 3. Readback Voltage Resolution of Vo Rated Accuracy 0.05% Vo Rated Accuracy 0.05% Vo Rated 4. Readback Current	V	0~1009 By elect 0~5V o 0~6V o		0Kohm f olitage: 0 accurac accurac ) -OK, 0V CC mod cen: off, inal or O Local: C  ual adjus al adjus but on/oi on by Vo IEEE488 ion: 120 12.5  1.20 1.20 2.40 2.40  1.125 6.3	ull scale   ~0.6V/2· y: 1%, us   heid so   hei	.user sel - -15V, or - -15V, or - -15V, or - -15V, or - -15V, or - -15V, or - - -15V, or - - 	lect. Acc dry con table	uracý a tact, usi stance stance stance sximum st Enab ort: Rer safe), F encod 19,200 50 1.0 25 0.60 60	voltage le/Disab mote, 2~ land fine oldback er. Numh ch and D  Output  1.2 30  0.25 25 0.50 50  1.2 30	30V, ma e in: 6V   SV   SV   SV   SV   SV   SV   SV	ximum   ximu	sink cur al. k currer ctable)  150  150  100  100  100  100  100  10	rent: 10: nt: 5mA.    300     6.0     150     0.05     5.0     0.10     12     150     150	600   12.0   300   0.03   2.6   0.05   5.2	X	X
5. On/Off control (rear panel) 6. Output Current monitor 7. Output Voltage monitor 8. Power Supply OK signal 9. C.Y/CC indicator 10. Enable/Disable 11. Local/Remote analog control 12. Local/Remote analog control indicator 1.5 FRONT PANEL 1. Control functions  2. Display 3. Indications 1.6 Interface RS-232&RS-485 or Optional GPIB. Model 1. Remote Voltage Programming (16 bit) Resolution (0.02% of Vo Rated) Accuracy 0.05%Vo Rated Output Voltage (*11) 2. Remote Current Programming (16 bit) Resolution (0.002% of lo Rated) Accuracy (0.1% of lo Rated+0.1% of lo Actual Output)(*16 Resolution (0.002% of lo Rated) Accuracy (0.1% of lo Rated+0.1% of lo Actual Output)(*16 Resolution of Vo Rated) Resolution of Vo Rated Accuracy 0.05% Vo Rated Accuracy 0.05% Vo Rated	V	0~1009 By elect 0~5V o 0~5V o 0~5V o 0~5V o TTL hic Open c Dry col By elect OyP/U AC on/Addres RS232/ Baudra Voltage Curren Voltage terface  0.12 3.0  2.00 4.0 400		OKohm folitage: 0.  OKohm folitage: 0.  accurac  o - OK, OV  CC moo  cen: off, inal or O  Local: C  ual adjust out on/oi on by Vo  IEEE488 ion: 120  12.5  1.20  1.20  2.40  1.125	ull scale   ~0.6V/2· y: 1%, us   y: 1%, us	.user sel - 15V, or - 15V,	lect. Acc dry con table	uracý a tact, usi stance stance stance sximum st Enab ort: Rer safe), F encod 19,200 50 1.0 25	voltage: e/Disab mote, 2~ constant of the cons	30V, ma e in: 6V   15V or op v. maxim adjustm   200	ximum.  ven: Loc CV to CC  tit Panel  100  2.0 50  0.15 15 0.30 30	sink cur al. k currer cctable) 	rent: 10: nt: 5mA.    300   6.0   150     0.05   5.0   0.10     12	600   12.0   300   0.03   2.6   0.05   5.2	X	X
5. On/Off control (rear panel) 6. Output Current monitor 7. Output Voltage monitor 8. Power Supply OK signal 9. C.V/C indicator 10. Enable/Disable 11. Local/Remote analog control 12. Local/Remote analog control indicator 1.5 FRONT PANEL 1. Control functions  2. Display 3. Indications 1.6 Interface RS-232&RS-485 or Optional GPIB Model 1. Remote Voltage Programming (16 bit) Resolution (0.02% of Vo Rated) Accuracy 0.05%Vo Rated Output Voltage (*11) 2. Remote Current Programming (16 bit) Resolution (0.002% of lo Rated) Accuracy (0.1% of lo Rated+0.1% of lo Actual Output)(*10 Resolution (0.002% of lo Rated) Accuracy (0.1% of lo Rated+0.1% of lo Actual Output)(*10 3. Readback Voltage Resolution of Vo Rated Accuracy 0.05% Vo Rated 4. Readback Current Resolution of lo Rated Accuracy 0.3% of lo Rated output	V	0~1009 By elect 0~5V o 0~5V o 0~5V o 0~5V o TTL hig Open c Dry col By elect Open c OyP/U AC on/Addres RS232/ Baudra Voltage Curren Voltage 1 0.12 3.0 2.00 4.0 4.0 4.0 0.12 3 11 300 12	%, 0~5/11	0Kohm folkom fol	ull scale   ~0.6V/2· y: 1%, us   y: 1%, us	.user selectors leave to the control of the control	lect. Acc dry con table	uracy a tact, usi	voltage: e/Disab note, 2~ 2	30V, ma e in: 6V   1.60	100   150   100	sink cur al. k currer cctable) .) Go tc 31  150         	rent: 10:  nt: 5mA.  loolocal co	600   12.0   300   0.03   2.6   0.05   5.2   12   300   0.12   3.90   0.10	X	X
5. On/Off control (rear panel) 6. Output Current monitor 7. Output Voltage monitor 8. Power Supply OK signal 9. C.Y/CC indicator 10. Enable/Disable 11. Local/Remote analog control 11. Local/Remote analog control indicator 1.5 FRONT PANEL 1. Control functions  2. Display 3. Indications 1.6 Interface RS-232&RS-485 or Optional GPIB. Model 1. Remote Voltage Programming (16 bit) Resolution (0.02% of Vo Rated) Accuracy (0.5% Vo Rated Output Voltage (*11) 2. Remote Current Programming (16 bit) Resolution (0.002% of lo Rated) Accuracy (0.1% of lo Rated+0.1% of lo Actual Output)(*10 3. Readback Voltage Resolution of Vo Rated Accuracy (0.05% Vo Rated Accuracy (0.05% Vo Rated Accuracy (0.05% Vo Rated) Accuracy (0.002% of lo Rated) Accuracy (0.05% Vo Rated	V	0~1009 By elect 0~5V o 0~6V o 0~6V o 0~7V o 0 0 o 0~6V o 0 0 o 0 o 0 o 0 o 0 o 0 o 0 o 0 o 0 o	We, 0~5/11	0Kohm f olitage: 0. accurac accurac ) -OK, OV CC moo oen: off, in a dijust al adjust al adjust out on/of on by Vc IEEE488 ion: 120 accurac 1.25  1.20 1.20 2.40  1.125  6.3	ull scale ~ 0.6 (V/2 · V/2 · V	.user sel	lect. Acc dry con table	uracy a tact, usi	voltage e/Disab note, 2~ 30 and fine oldback er. Number hand D. 0.25 25 0.50 50 1.2 30 1.13 37.50	30V, mae in: 6V   30V, mae in: 6V   5V or op op V, maxir adjustm   30V,	100   100	150   150	300   6.0   150	600   12.0   300   0.03   2.6   0.05   5.2   12   300   0.12   3.90	X	X
5. On/Off control (rear panel) 6. Output Voltage monitor 7. Output Voltage monitor 8. Power Supply OK signal 9. C.Y/CC indicator 10. Enable/Disable 11. Local/Remote analog control 11. Local/Remote analog control indicator 1.5 FRONT PANEL 1. Control functions  2. Display 3. Indications 1.6 Interface RS-232&RS-485 or Optional GPIB. Model 1. Remote Voltage Programming (16 bit) Resolution (0.02% of Vo Rated) Accuracy 0.05%Vo Rated Output Voltage (*11) 2. Remote Current Programming (16 bit) Resolution (0.002% of lo Rated) Accuracy (0.1% of lo Rated)+0.1% of lo Actual Output)(*10 8. Readback Voltage Resolution of Vo Rated Accuracy (0.1% of lo Rated)+0.1% of lo Actual Output)(*10 3. Readback Voltage Resolution of Vo Rated Accuracy 0.05% Vo Rated 4. Readback Current Resolution of Io Rated Accuracy 0.3% of lo Rated (*10) Resolution of lo Rated (*10) S. OVP/UVL Programming	mV mA mA mA mA	0~1009 By elect 0~5V o 0~5V o 0~5V o 1TL hig Open c 0 by elect Ope	1.80	0Kohm f olitage: 0 accurac accurac ) - OK, 0W CC mod en: off, inal or 0 Local: C  ual adjus al adjus iut on/oi on by Vc IEEE488 ion: 120 accurac 12.5  1.20 120 2.40  1.125 6.3  1.20 1.80 10.80 3.60	ull scale ~0.6V/2· y: 1%, us y: 1%,	user selectory - 15V, or -	lect. Acc dry con table	uracý a tact, usistance   stance   st	voltage: e/Disab note, 2 ~	30V, mae in: 6V   30V, mae in: 6V   5V or op op V, maxim adjustm   30V, maxim adjustm   30V, maxim adjustm   30V, maxim	1100   2.0   150	10.50	300   6.0   150	600   12.0   300   0.03   2.6   0.05   5.2   12   3.90   0.10   7.8	X	X
5. On/Off control (rear panel) 6. Output Current monitor 7. Output Voltage monitor 8. Power Supply OK signal 9. C.Y/CC indicator 10. Enable/Disable 11. Local/Remote analog control 11. Local/Remote analog control indicator 1.5 FRONT PANEL 1. Control functions  2. Display 3. Indications 1.6 Interface RS-232&RS-485 or Optional GPIB. Model 1. Remote Voltage Programming (16 bit) Resolution (0.02% of Vo Rated) Accuracy 0.05%Vo Rated Output Voltage (*11) 2. Remote Current Programming (16 bit) Resolution (0.002% of lo Rated) Accuracy (0.1% of lo Rated+0.1% of lo Actual Output)(*16 Resolution (0.002% of lo Rated) Accuracy (0.1% of lo Rated+0.1% of lo Actual Output)(*16 Resolution of Vo Rated) Accuracy 0.05%Vo Rated 4. Readback Voltage Resolution of lo Rated Accuracy 0.05% Vo Rated 4. Readback Current Resolution of lo Rated Accuracy 0.3% of lo Rated (*10) Resolution of lo Rated Output Accuracy 0.3% of lo Rated (*10) Resolution of lo Rated (*10) Resolution of lo Rated (*10) Resolution (0.1% of Vo Rated)	V	0~1009 By elect 0~5V o 0~6V o 0~6V o 0~6V o 0~7V o 0 0~7V co 0 0 o 0 o 0 o 0 o 0 o 0 o 0 o 0 o 0 o	1.80	0Kohm f 0Ikohm f 0Iko	ull scale ~ 0.6V/2· v. 1%, us v. 1%,	.user sel	lect. Acc dry contable trable	safe), F.   sensor   solution	voltage e/Disab mote, 2~ case of the control of the	30V, mae in: 6V   30V, mae in: 6V   5V or op V, maxir adjustm   30V, max	100   100	sink cur al. k currer ctable) .), Go to 31  150  0.10  0.20  75  10.50  75  11.00  13.00  10.00 10.	300   0.05   5.0   0.15   15   15   15   15   15   15   15	600   12.0   300   0.03   2.6   0.05   5.2   12   300   0.12   3.90   0.10   7.8	X	X
5. On/Off control (rear panel) 6. Output Voltage monitor 7. Output Voltage monitor 8. Power Supply OK signal 9. C.Y/CC indicator 10. Enable/Disable 11. Local/Remote analog control 11. Local/Remote analog control indicator 1.5 FRONT PANEL 1. Control functions  2. Display 3. Indications 1.6 Interface RS-232&RS-485 or Optional GPIB. Model 1. Remote Voltage Programming (16 bit) Resolution (0.02% of Vo Rated) Accuracy 0.05%Vo Rated Output Voltage (*11) 2. Remote Current Programming (16 bit) Resolution (0.002% of lo Rated) Accuracy (0.1% of lo Rated)+0.1% of lo Actual Output)(*10 8. Readback Voltage Resolution of Vo Rated Accuracy (0.1% of lo Rated)+0.1% of lo Actual Output)(*10 3. Readback Voltage Resolution of Vo Rated Accuracy 0.05% Vo Rated 4. Readback Current Resolution of Io Rated Accuracy 0.3% of lo Rated (*10) Resolution of lo Rated (*10) S. OVP/UVL Programming	W   mV   mA   mA   mA   mA   mV   mV   mV	0~1009 By elect 0~5V o 0~6V o 0~6V o 0~7V col 0 o 0 o 0 o 0 o 0 o 0 o 0 o 0 o 0 o 0 o	1.80	0Kohm f olitage: 0 accurac accurac ) - OK, 0W CC mod en: off, inal or 0 Local: C  ual adjus al adjus iut on/oi on by Vc IEEE488 ion: 120 accurac 12.5  1.20 120 2.40  1.125 6.3  1.20 1.80 10.80 3.60	ull scale ~ 0.6 V/2 v: 1%, us v: 1%,	.user selectory - 15V, or	lect. Acc dry contable trable	safe)	voltage e/Disab note, 2~ 2 data de l'inea er select voltage e/Disab note, 2~ 2 data de l'inea da	30V, ma e in: 6V   SV or op V, maxim adjustm   SV or op V, maxim adjustm   SV or op V, maxim   SV or op V,	100   100	sink cur al. k currer cctable) , Go to 31 	300   0.05   15   15   300   3000	600   12.0   300   0.03   2.6   0.05   5.2   12   300   0.12   3.90   0.10   7.8	X	X

<sup>\*1:</sup> Minimum voltage is guaranteed to maximum 0.2% of Vo Rated.
\*2: Minimum current is guaranteed to maximum 0.4% of Io Rated.
\*3: At maximum output power.
\*4: 85~132Vac or 170~265Vac, constant load.

 <sup>\*4:88~132</sup>VaC or 170~265VaC, constant load.
 \*5: From No-load to Full-load, constant input voltage.
 \*6: For load voltage change, equal to the unit voltage rating, constant input voltage.
 \*7: For 6V models the ripple is measured at 2~6V output voltage and full output current. For other models, the ripple is measured at 10~100% output voltage and full output current.

<sup>\*8:</sup> Time for the output voltage to recover within 0.5% of its rated for a load change 10~90% of rated output, Output set-point:10~100%.
\*9: For 6V~300V models: measured with JEITA RC-9131A 1:1 probe. For 600V model: measured with 10:1 probe Accuracy -Values have been calculated at Vo Rated & Io Rated.
\*10: The Constant Current programming readback and monitoring accuracy does not include the

warm-up and Load regulation thermal drift. \*11: Measured at the sense point.

# **General Specifications Genesys™ 750W/1500W**

1. Input voltage/freq. (*1) 2. Power Factor	85~265Vac continuous, 47~63Hz, single phase
	0.99 @100/200Vac, rated output power.
2 FNC1000 2 2 2	
3. EN61000-3-2,3 compliance	Complies with EN61000-3-2 class A and EN61000-3-3 at 20~100% output power.
1. Input current 100/200Vac	750W :10.5A / 5A, 1500W :21A / 11A
5. Inrush current 100/200Vac	750W :Less than 25A, 1500W :Less than 50A
6. Hold-up time	More than 20mS, 100Vac, at 100% load.
2.2 POWER SUPPLY CONFIGURATION	
1. Parallel Operation	Up to 4 units in master/slave mode with single wire current balance connection
2. Series Operation	Up to 2 units. with external diodes. 600V Max to Chassis ground
2.3 ENVIRONMENTAL CONDITIONS	0.506.100/11
1. Operating temp	0~50°C, 100% load.
2. Storage temp	-20~70°C
3. Operating humidity	30~90% RH (non-condensing).
4. Storage humidity	10~95% RH (non-condensing).
5. Vibration	MIL-810E, method 514.4, test cond. I-3.3.1. The EUT is fixed to the vibrating surface.
6. Shock	Less than 20G, half sine, 11mSec. Unit is unpacked.
7. Altitude	Operating: 10000ft (3000m), Derat output current by 2%/100m above 2000m, Non operating: 40000ft (12000m).
- 4 FMC	
2.4 EMC 1. Applicable Standards:	
	IFC1000 4.2 Air disable OVV appetant disable AVV
2. ESD	IEC1000-4-2. Air-disch8KV, contact disch4KV
3. Fast transients	IEC1000-4-4.2KV
4. Surge immunity	IEC1000-4-5. 1KV line to line, 2KV line to ground
5. Conducted immunity	IEC1000-4-6, 3V
i. Radiated immunity	IEC1000-4-3, 3V/m
7. Conducted emission	EN55022B, FCC part 15J-B, VCCI-B.
3. Radiated emission	ENSS022A, FCC part 137-0, VCC1-A. ENSS022A, FCC part 157-4, VCC1-A.
9. Voltage dips	EN61000-4-11
10. Conducted emission	EN55022B, FCC part 15-B, VCCI-B.
11. Radiated emission	EN55022A, FCC part 15-A, VCCI-A.
2.5 SAFETY	
1.Applicable standards:	UL 60950-1, CSA22.2 No.60950-1, IEC 60950-1, EN 60950-1
	Models with Vout 50V: Output is SELV, all communication/control interfaces (RS232/485, IEEE, Isolated Analog,
	LAN, Sense, Remote Programming and Monitoring) are SELV.
	LAN, Sense, Remote Programming and Monitoring) are SELV.  Models with 60V Vout 400V: Output is Hazardous, communication/control interfaces: RS232/485, IEEE,
2.Interface classification	Isolated Analog, LAN, Remote Programing and Monitoring (pins 1-3, pins14-16) are SELV, Sense, Remote
	Programming and Monitoring (pins 8-13, pins 21-25) are Hazardous
	Programming and Monitoring (pins 8-13, pins 21-25) are Hazardous.  Models with 400V Yout 600V: Output is Hazardous, all communication/control interfaces (RS232/485, IEEE,
	Isolated Analog I AN Sense Remote Programming and Monitorinal are Hazardous
	Isolated Analog, LAN, Sense, Remote Programming and Monitoring) are Hazardous.  Vout 50V models: Input-Output (SELV): 4242VDC 1min, Input-communication/control (SELV): 4242VDC 1min,
	Vouc 39V moders : injut-couput (SELV): 4242VDC Imin, input-communication/control (SELV): 4242VDC Imin, Input-Ground: 2828VDC Imin,
	60V Vout 150V models: Input-Output (Hazardous): 3425VDC 1min, Input-communication/control (SELV):
	600 Vott 1500 models: imper-output (nazarious): 3423/0C mini, imper-communication/control (SELV): 4242VDC 1min. Output(Hazardous)-SELV: 2307VDC 1min. Output(Hazardous)-Ground: 1414VDC 1min.
3.Withstand voltage	Input-Ground: 2828VDC 1min. 300V Vout 600V models: Input-Output(Hazardous): 3490VDC 1min, Input-communication/control (SELV):
3.Withstand voltage	ISDUV VOUR BUDY MODELS INDUSTRICATIONS AND AND AND INDUSTRICATION (CONTROL INTUSTRICATION)
3.Withstand voltage	424 VIC 1 st. House I. O. C. to the constant of the state (SELV).
3.Withstand voltage	4242VDC 1min, Hazardous. Output-communication/control(SELV): 4242VDC 1min,
J	4242VDC 1min, Hazardous. Output-communication/control(SELV): 4242VDC 1min, Output(Hazardous)-Ground: 2738VDC 1min, Input-Ground: 2828VDC 1min.
	4242VDC 1min, Hazardous. Output-communication/control(SELV): 4242VDC 1min,
.lnsulation resistance	4242VDC 1min, Hazardous. Output-communication/control(SELV): 4242VDC 1min, Output(Hazardous)-Ground: 2738VDC 1min, Input-Ground: 2828VDC 1min.
i.Insulation resistance	4242VDC 1min, Hazardous. Output-communication/control(SELV): 4242VDC 1min, Output(Hazardous)-Ground: 2738VDC 1min, Input-Ground: 2828VDC 1min. More than 100Mohm at 25°C, 70% RH.
4.insulation resistance 2.6 MECHANICAL CONSTRUCTION 1. Cooling	4242VDC 1min, Hazardous. Output-communication/control(SELV): 4242VDC 1min, Output(Hazardous)-Ground: 2738VDC 1min, Input-Ground: 2828VDC 1min. More than 100Mohm at 25°C, 70% RH.  Forced air flow: from front to rear. No ventilation holes at the top or bottom of the chassis; Variable fan speed.
4.Insulation resistance  2.6 MECHANICAL CONSTRUCTION 1. Cooling 2. Dimensions (WxHxD)	4242VDC 1min, Hazardous. Output-communication/control(SELV): 4242VDC 1min, Output(Hazardous)-Ground: 2738VDC 1min, Input-Ground: 2828VDC 1min.  More than 100Mohm at 25°C , 70% RH.  Forced air flow: from front to rear. No ventilation holes at the top or bottom of the chassis; Variable fan speed.  W: 422.8mm, H: 43.6mm, D: 432.8mm (excluding connectors, encoders, handles, etc.)
4.Insulation resistance  2.6 MECHANICAL CONSTRUCTION 1. Cooling 2. Dimensions (WxHxD)	4242VDC 1min, Hazardous. Output-communication/control(SELV): 4242VDC 1min, Output(Hazardous)-Ground: 2738VDC 1min, Input-Ground: 2828VDC 1min.  More than 100Mohm at 25°C , 70% RH.  Forced air flow: from front to rear. No ventilation holes at the top or bottom of the chassis; Variable fan speed. W: 422.8mm, H: 43.6mm, D: 432.8mm (excluding connectors, encoders, handles, etc.) 750W: 7kg (15 Lbs) 1500W: 8.5Kg (18 Lbs)
4.Insulation resistance  2.6 MECHANICAL CONSTRUCTION  1. Cooling  2. Dimensions (WxHxD)  3. Weight	4242VDC 1min, Hazardous. Output-communication/control(SELV): 4242VDC 1min, Output(Hazardous)-Ground: 2738VDC 1min, Input-Ground: 2828VDC 1min.  More than 100Mohm at 25°C , 70% RH.  Forced air flow: from front to rear. No ventilation holes at the top or bottom of the chassis; Variable fan speed. W: 422.8mm, H: 43.6mm, D: 432.8mm (excluding connectors, encoders, handles, etc.) 750W: 750W: 750W: 150
4.Insulation resistance  2.6 MECHANICAL CONSTRUCTION 1. Cooling 2. Dimensions (WxHxD) 3. Weight 4. AC Input connector	4242VDC 1min, Hazardous Output-communication/control(SELV): 4242VDC 1min, Output(Hazardous)-Ground: 2738VDC 1min, Input-Ground: 2828VDC 1min.
I.Insulation resistance  2.6 MECHANICAL CONSTRUCTION . Cooling . Dimensions (WxHxD) 3. Weight I. AC Input connector	4242VDC 1min, Hazardous. Output-communication/control(SELV): 4242VDC 1min, Output(Hazardous)-Ground: 2738VDC 1min, Input-Ground: 2828VDC 1min.  More than 100Mohm at 25°C , 70% RH.  Forced air flow: from front to rear. No ventilation holes at the top or bottom of the chassis; Variable fan speed. W: 422.8mm, H: 43.6mm, D: 432.8mm (excluding connectors, encoders, handles, etc.) 750W: 750W: 750W: 150
Linsulation resistance  2.6 MECHANICAL CONSTRUCTION 1. Cooling 2. Dimensions (WxHxD) 3. Weight	4242VDC 1min, Hazardous Output-communication/control(SELV): 4242VDC 1min, Output(Hazardous)-Ground: 2738VDC 1min, Input-Ground: 2828VDC 1min.

<sup>\*1:</sup> For cases where conformance to various safety standards (UL, IEC etc.) is required, to be described as 100-240Vac (50/60Hz). All specifications subject to change without notice.

# TDK·Lambda

# 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.



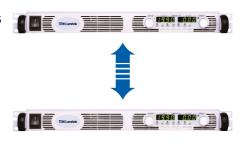
# Series operation

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 chain control of up to 31 power supplies on the same 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 ±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%

P/N: IS420

P/N: IS510

#### **LX** Compliant to Class C LAN Interface P/N: LAN

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

# Power Supply Identification / Accessories How to order

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

# Models 750/1500W

Model	Output Voltage VDC	Output Current (A)	Output Power (W)
GEN6-100	0~6V	0~100	600
GEN6-200	U~6V	0~200	1200
GEN8-90	0~8V	0~90	720
GEN8-180	U~8V	0~180	1440
GEN12.5-60	0~12.5V	0~60	750
GEN12.5-120		0~120	1500
GEN20-38	0~20V	0~38	760
GEN20-76	U~20V	0~76	1520
GEN30-25	0. 201/	0~25	750
GEN30-50	0~30V	0~50	1500
GEN40-19	0~40V	0~19	760
GEN40-38	U~40V	0~38	1520

Model	Output Voltage VDC	Output Current (A)	Output Power (W)
GEN50-30	0~50V	0~30	1500
GEN60-12.5	0 601/	0~12.5	750
GEN60-25	0~60V	0~25	1500
GEN80-9.5	0.001/	0~9.5	760
GEN80-19	0~80V	0~19	1520
GEN100-7.5	0 1001/	0~7.5	750
GEN100-15	0~100V	0~15	1500
GEN150-5	0 1501/	0~5	750
GEN150-10	0~150V	0~10	1500
GEN300-2.5	0. 2001/	0~2.5	750
GEN300-5	0~300V	0~5	1500
GEN600-1.3	0 6001	0~1.3	780
GEN600-2.6	0~600V	0~2.6	1560

# **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 LX Class C) LAN

# AC Cords sets (750W only)

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

P/N

#### **Accessories**

# 1. Communication cable

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

Mode	RS-485	RS-232	RS-232
PC Connector	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

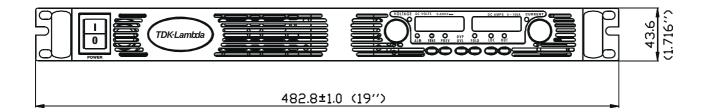
# 2. Serial link cable\*

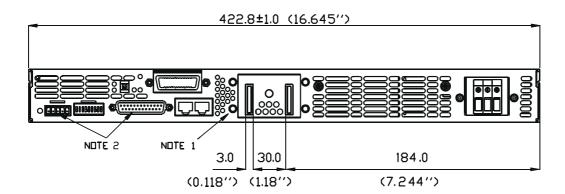
Daisy-chain up to 31 Genesys<sup>™</sup> power supplies.

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

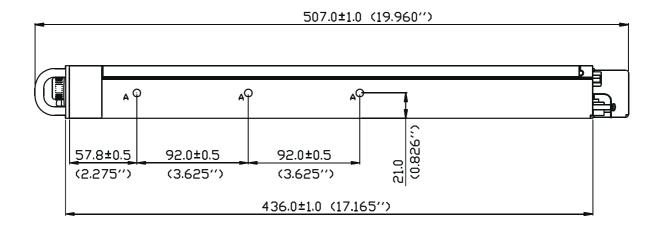
<sup>\*</sup> Included with power supply

# Outline Drawing Genesys™ 750W/1500W Units









# **NOTE**

- 1. Bus bars for 6v to 60v models (shown) Wire clamp connector for 80V to 600V models
- 2. Plug connectors included with the power supply
- 3. Chassis slides mounting holes #10-32 marked "A" GENERAL DEVICES P/N: C-300-S-116 or equivalent

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