Laboratory Power Supplies: 750 ~ 1500W





Features

- High Power Density 750 / 1500W in 1U Rack
- Wide range input: 85 ~ 264Vac, with Power Factor Correction
- Output voltage up to 600V, current up to 200A
- Built-in RS232 / RS-485 Interface Standard
- Last Setting Memory: Front Panel Lockout
- Parallel Master / Salve Parallel operation, with up to four units. Total current is measured by master.
- Reliable Encoders for Voltage & Current adjustment
- Optional Interfaces :
- LX/ Compliant LAN
- > Isolated Analog Programming & Monitoring Interface
- ➤ IEEE Multi-Drop –SCPI, USB interface
- Labview & LabWindows drivers

Model	Out	Power	
750W	V	Α	W
GEN6-100	0-6V	0-100A	600W
GEN8-90	0-8V	0-90A	720W
GEN12.5-60	0-12.5V	0-60A	750W
GEN20-38	0-20V	0-38A	750W
GEN30-25	0-30V	0-25A	750W
GEN40-19	0-40V	0-19A	750W
GEN60-12.5	0-60V	0-12.5A	750W
GEN80-9.5	0-80V	09.5A	750W
GEN100-7.5	0-100V	0-7.5A	750W
GEN150-5	0-150V	0-5A	750W
GEN300-2.5	0-300V	0-2.5A	750W
GEN600-1.3	0-600V	0-1.3A	750W

Model	Out	Power	
1500W	V	Α	W
GEN6-200	0-6V	0-200A	1200W
GEN8-180	0-8V	0-180A	1440W
GEN12.5-120	0-12.5V	0-120A	1500W
GEN20-76	0-20V	0-76A	1500W
GEN30-50	0-30V	0-50A	1500W
GEN40-38	0-40V	0-38A	1500W
GEN50-30	0-50V	0-30A	1500W
GEN60-25	0-60A	0-25A	1500W
GEN80-19	0-80V	0-19A	1500W
GEN100-15	0-100V	0-15A	1500W
GEN150-10	0-150V	0-10A	1500W
GEN300-5	0-300V	0-5A	1500W
GEN600-2.6	0-600V	0-2.6A	1500W

How to order:

<u>GEN</u>	30	25 -	IEE
Series Name	Output Voltage	Output Current	Options IEEE IS510 IS420 LAN

Programming Options:

RS232 / RS-485 Interface built-in (Standard)
GPIB (Multi-Drop Master Interface) – IEEE
Voltage Programming Isolated Analog Interface – IS510
Current Programming Isolated Analog Interface - IS420
LAN Interface (complies with LXI Class C) - LAN

Laboratory Power Supplies: 750 ~ 1500W



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.

Laboratory Power Supplies: 750 ~ 1500W



Genesys ™ 750W/1500W Specifications

.0 MODEL	GEN	6-200	8-180	12 5-120	20-76	30-50	40-38	50-30	60-25			in Blue 150-10			750W	15
. Rated output voltage (*1)	V	6	8	12.5	20	30	40	50	60	80	100	150	300	600		土
. Rated Output Current (*2)	A	200	180	120	76	50	38	30	25	19	15	10	5	2.6		+
R. Rated Output Power R. Efficiency at 100/200Vac (*3)	W %	1200 77/79	1440 78/81	1500 82/85	1520 83/86	1500 83/86	1520 84/88	1500 84/88	1500 84/88	1520 84/88	1500 84/88	1500 84/88	1500	1560 84/88		+
.0 MODEL	GEN	6-100	8-90	12.5-60		30-25	40-19		60-12.5		100-7.5	•	300-2.5		X	十
Rated output voltage (*1)	V	6	8	12.5	20-38	30-23	40-19		60	80	100-7.3	150	300	600	X	+
Rated Output Current (*2)	Α	100	90	60	38	25	19		12.5	9.5	7.5	5	2.5	1.3	Х	I
Rated Output Power	W	600	720	750	760	750	760		750	760	750	750	750	780	X	+
Efficiency at 100/200Vac (*3)	%	76/78	77/80	81/84	82/85	82/85	83/87		83/87	83/87	83/87	83/87	83/87	83/87	Х	
1 CONSTANT VOLTAGE MODE Max.line regulation (0.01% of Vo+ 2mV)(*4)	mV	2.0	2.0	2.2	4	-		7	8	10	12	17	22	(2)	X	$\overline{}$
Max.line regulation (0.01% of Vo+2mV)(*4) Max load regulation (0.01% of Vo+2mV)(*5)	mV mV	2.6	2.8 2.8	3.3	4	<u>5</u>	6	7	8	10	12 12	17	32 32	62 62	X	+
Ripple and noise p-p 20MHz (*9)	mV	60	50	60	60	50	60	40	60	75	75	75	130	300	X	\top
Ripple r.m.s 5Hz~1MHz (*9)	mV	8	6	7	7.5	6	7	5	7	7	8	8	20	60	X	T
Remote sense compensation/line Temp. coefficient	V V	1 50PPM/	°C of rot	1	1	1.5	2	2	3	4	5	5	5	5	X	+
Temp. stability	%										Constan	nt line, lo	ad & ter	mn	X	+
Jp-prog. response time, 0~Vo Rated	mS			esistive l		TICCI Val	Ollowill	9 30 11111	idics we			resistive		250	X	\pm
Down-prog response time full-load	mS	10		50			8	0				50		250	X	T
Down-prog response time No-load Transient response time (*8)	mS mS	500	600	700	800 dels up	900	1000		1100	1200		2000	2500	4000	X	+
Temp. drift	- III3 - %											line, load	d & temi	1	X	+
CONSTANT CURRENT MODE		10.01700	i iutcu i	outove	1 01113 111	ter var re	nowing	50 1111110	ices wan	птир. с	Jiistaile	iiiic, iou	a a tem	<i>.</i>		
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	Х	\top
Max.load regulation (0.02% of Io+5mA)(*6)	mA	25	23	17	12.6	10	8.8		7.5	6.9	6.5	6.0	5.5	5.26	X	T
Ripple r.m.s 5Hz~1MHz . (*7)	mA	190	160	110	50	45	30		15	10	10	8	6	4	Х	+
Max.line regulation (0.01% of lo+ 2mA)(*4) Max.load regulation (0.02% of lo+5mA)(*6)	mA mA	22 45	20 41	14 29	9.6 20.2	7.0 15	5.8 12.6	5 11	4.5 10	3.9 8.8	3.5 8.0	3.0 7.0	2.5 6.0	2.26 5.52		+
lipple r.m.s 5Hz~1MHz .(*7)	mA	350	300	210	120	60	65	60	60	40	20	15	15	7		+
emp. coefficient	PPM/°C	70PPM/	°C from	rated ou	itput vo	Itage, fo	llowing	30 minu	ites warı	m up					Χ	I
emp. drift	%	0.01% o	f rated \	out ove	r 8hrs in	terval fo	llowing	<u>30 minι</u>	ites war	m up. Co		line, load			X	Ŧ
Varm up drift	%	Less tha	n 0.1% r	ated out	put curr	ent ove	130 min	rollowin	ig powe	r on or o	utput vo	oltage /	current (cnange	X	
PROTECTIVE FUNCTIONS		0 1050/	Consta	n+ C	nt										V	_
DCP DCP Foldback				nt Curre	nt n power	supply	rhange f	rom CV	to CC II	lser sele	ctable				X	+
DVP type												mmuni	cation p	ort	X	\top
OVP trip point		0.5~7.5V	0.5~10V	1~15V	1~24V	2~36V	2~44V	5~57V	5~66V	5~88V	5~110V	5~165V	5~330V	5~660V	X	T
Over Temp Protection		User sel	<u>ectable</u>	latched	or non	latched									X	_
ANALOG PROGRAMMING AND MONITORIN	G	la														_
Vout Voltage Programming Out Voltage Programming		0~100%	0~5V	or 0~10V	, user se , user se	lect. Acc	uracy a	<u>nd linea</u>	rity: +/-0	<u>).5% of r</u>	ated Vo	ut.			X	+
Jout Resistor Programming					ull scale,										X	+
out Resistor Programming		0~100%	, 0~5/10)Kohm f	ull scale,	user sel	ect. Accı	ıracy an	d linear	ity: +/-1.	.5% of ra	ited lout			X	T
On/Off control (rear panel)					~0.6V/2~			act, use	r selecta	ible logi	С				X	+
Output Current monitor Output Voltage monitor		0~5V or	0~10V,	accuracy accuracy	<u>y: 1%, us</u> y: 1%, us	er selec	table								X	+
Power Supply OK signal		TTL hia	n (4~5V)	-OK, 0V	-Fail 500	ohm se	ries resis	tance							X	\pm
CV/CC indicator		Open co	ollector,	CC mod	e: On, C	V mode:	Off, Max	kimum v	oltage:	30V, ma	ximum s	sink curr	ent: 10n	nA	X	+
Enable/Disable Local/Remote analog control					Short: or pen/Sho						nen: Loc	al			X	+
Local/Remote analog control indicator												k curren	t: 5mA.		X	土
FRONT PANEL																
					t by sep				nd fine	<u>adjustm</u>	ent sele	ctable)			X	Ŧ
Control functions		AC on/o	ff Outn	ai adjust ut on/of	by Volt.	<u>. Aajust (</u> irt mode	encoger s (auto	safe) Fo	ldhack o	ontrol (CV to CC	C), Go to	local co	ntrol	X	+
controllanctions		Address	selection	on by Vo	ltage (o	r current	adjust	encode	r. Numb	er of ad	dresses:	31	iocai co	iitioi	X	\pm
		RS232/4	85 and	<u>IEEE488.</u>	.2 select	ion by IE	EE enab	le switc	h and DI	IP switch	1				X	Į
					0, 2400, ocy: 0.059			19,200							X	+
Display		Current	4 digits	accurac	cý: 0.2%	+/-1 cou	nt								X	士
		Voltage	, Curren	t, Alarm,	, Fine, Pr	eview, F	oldback	, Local, (Output (On, Fron	t Panel I	Lock			Χ	\bot
ndications															750W	1
Interface RS-232&RS-485 or Optional GPIB			_	40.5		- 20	- 10							600	Х	
Interface RS-232&RS-485 or Optional GPIB / odel	/ LAN Int	erface 6	8	12.5	20	30	40	50	60	80	100	150	300	000		
<u>Interface RS-232&RS-485 or Optional GPIB</u> del Remote Voltage Programming (16 bit)	V	6													V	_
Interface RS-232&RS-485 or Optional GPIB and Indeed Remote Voltage Programming (16 bit) solution (0.02% of Vo Rated)	V mV	0.12	0.16	0.25	0.4	0.6	0.8	1.0	1.2	1.6	2.0	3.0	6.0	12.0	X	Ŧ
Interface RS-232&RS-485 or Optional GPIB andel Remote Voltage Programming (16 bit) Solution (0.02% of Vo Rated) Euracy 0.05%Vo Rated Output Voltage (*11)	V	6													X	Ξ
Interface RS-232&RS-485 or Optional GPIB / del Remote Voltage Programming (16 bit) solution (0.02% of Vo Rated) curacy 0.05%Vo Rated Output Voltage (*11) Remote Current Programming (16 bit)	V mV	0.12	0.16	0.25	0.4	0.6	0.8	1.0	1.2	1.6	2.0	3.0	6.0	12.0	X	H
Interface RS-232&RS-485 or Optional GPIB / del Remote Voltage Programming (16 bit) solution (0.02% of Vo Rated) uracy 0.05%Vo Rated Output Voltage (*11) Remote Current Programming (16 bit) olution (0.002% of Io Rated) uracy (0.1% of Io Rated) uracy (0.1% of Io Rated) uracy (0.1% of Io Rated) the second of Io Rated (1.0% of Io Rated) uracy (0.1% of Io Rated) uracy (0.1% of Io Rated) the second of Io Rated (1.0% of Io Rated) uracy (0.1% of Io Rated) the second of Io Rated (1.0% of Io Rated	V	0.12 3.0 2.00 200	0.16 4.0 1.80 180	0.25 6.3 1.20 120	0.4 10 0.76 76	0.6 15 0.50 50	0.8 20 0.38 38	1.0 25	1.2 30 0.25 25	1.6 40 0.19 19	2.0 50 0.15 15	3.0 75 0.10 10	6.0 150 0.05 5.0	12.0 300 0.03 2.6		\pm
Interface RS-232&RS-485 or Optional GPIB / del Remote Voltage Programming (16 bit) solution (0.02% of Vo Rated) uracy 0.05%Vo Rated Output Voltage (*11) Remote Current Programming (16 bit) olution (0.002% of Io Rated) uracy (0.1% of Io Rated) olution (0.002% of Io Rated) olution (0.002% of Io Rated)	V	0.12 3.0 2.00 200 4.0	0.16 4.0 1.80 180 3.60	0.25 6.3 1.20 120 2.40	0.4 10 0.76 76 1.52	0.6 15 0.50 50 1.0	0.8 20 0.38 38 0.76	1.0 25 0.60	1.2 30 0.25 25 0.50	1.6 40 0.19 19 0.38	2.0 50 0.15 15 0.30	3.0 75 0.10 10 0.20	6.0 150 0.05 5.0 0.10	12.0 300 0.03 2.6 0.05	Х	± ‡
Interface RS-232&RS-485 or Optional GPIB / del Remote Voltage Programming (16 bit) solution (0.02% of Vo Rated) curacy 0.05%Vo Rated Output Voltage (*11) Remote Current Programming (16 bit) solution (0.002% of lo Rated) curacy (0.1% of lo Rated) uracy (0.1% of lo Rated+0.1% of lo Actual Output) (*10 uracy (0.1% of lo Ra	V	0.12 3.0 2.00 200	0.16 4.0 1.80 180	0.25 6.3 1.20 120	0.4 10 0.76 76	0.6 15 0.50 50	0.8 20 0.38 38	1.0 25	1.2 30 0.25 25	1.6 40 0.19 19	2.0 50 0.15 15	3.0 75 0.10 10	6.0 150 0.05 5.0	12.0 300 0.03 2.6	Х	-
Interface RS-232&RS-485 or Optional GPIB / del Remote Voltage Programming (16 bit) solution (0.02% of Vo Rated) uracy 0.05%Vo Rated Output Voltage (*11) Remote Current Programming (16 bit) solution (0.02% of lo Rated) uracy (0.1% of lo Rated) tracy (0.1% of lo Rated) uracy (0.1% of lo Rated)	mV mV mV mA mA	0.12 3.0 2.00 200 4.0 400	0.16 4.0 1.80 180 3.60 360	0.25 6.3 1.20 120 2.40 240	0.4 10 0.76 76 1.52 152	0.6 15 0.50 50 1.0 100	0.8 20 0.38 38 0.76 76	1.0 25 0.60 60	1.2 30 0.25 25 0.50 50	1.6 40 0.19 19 0.38 38	2.0 50 0.15 15 0.30 30	3.0 75 0.10 10 0.20 20	6.0 150 0.05 5.0 0.10 10	12.0 300 0.03 2.6 0.05 5.2	Х	
Interface RS-232&RS-485 or Optional GPIB / idel Remote Voltage Programming (16 bit) Solution (0.02% of Vo Rated) Luracy (0.05%Vo Rated Output Voltage (*11) Remote Current Programming (16 bit) Solution (0.002% of lo Rated) Luracy (0.1% of lo Rated+0.1% of lo Actual Output) (*10 colution (0.002% of lo Rated) Luracy (0.1% of lo Rated+0.1% of lo Actual Output) (*10 colution (0.002% of lo Rated) Luracy (0.1% of lo Rated)	mV mV mA mA mA mA mA	0.12 3.0 2.00 2.00 4.0 400	0.16 4.0 1.80 180 3.60 360	0.25 6.3 1.20 120 2.40 240	0.4 10 0.76 76 1.52 152	0.6 15 0.50 50 1.0 100	0.8 20 0.38 38 0.76 76	1.0 25 0.60 60	1.2 30 0.25 25 0.50 50	1.6 40 0.19 19 0.38 38	2.0 50 0.15 15 0.30 30	3.0 75 0.10 10 0.20 20	6.0 150 0.05 5.0 0.10 10	12.0 300 0.03 2.6 0.05 5.2	X	I I I
Interface RS-232&RS-485 or Optional GPIB / odel Remote Voltage Programming (16 bit) Solution (0.02% of Vo Rated) Luracy 0.05%Vo Rated Output Voltage (*11) Remote Current Programming (16 bit) Solution (0.002% of lo Rated) Luracy (0.1% of lo Rated+0.1% of lo Actual Output)(*10 Solution (0.002% of lo Rated) Luracy (0.1% of lo Rated+0.1% of lo Actual Output)(*10 Luracy (0.1% of lo Rated+0.1% of lo Actual Output)(*10 Readback Voltage Solution of Vo Rated Luracy 0.05% Vo Rated	mV mV mV mA mA	0.12 3.0 2.00 200 4.0 400	0.16 4.0 1.80 180 3.60 360	0.25 6.3 1.20 120 2.40 240	0.4 10 0.76 76 1.52 152	0.6 15 0.50 50 1.0 100	0.8 20 0.38 38 0.76 76	1.0 25 0.60 60	1.2 30 0.25 25 0.50 50	1.6 40 0.19 19 0.38 38	2.0 50 0.15 15 0.30 30	3.0 75 0.10 10 0.20 20	6.0 150 0.05 5.0 0.10 10	12.0 300 0.03 2.6 0.05 5.2	Х	
Interface RS-232&RS-485 or Optional GPIB / del Remote Voltage Programming (16 bit) solution (0.02% of Vo Rated) curacy 0.05%Vo Rated Output Voltage (*11) Remote Current Programming (16 bit) solution (0.02% of lo Rated) curacy (0.1% of lo Rated-10.1% of lo Actual Output) (*10 solution (0.002% of lo Rated) curacy (0.1% of lo Rated+0.1% of lo Actual Output) (*10 Readback Voltage solution of Vo Rated curacy 0.05% Vo Rated Readback Current	V	0.12 3.0 2.00 200 4.0 400 0.12 3	0.16 4.0 1.80 180 3.60 360 0.16 4	0.25 6.3 1.20 120 2.40 240 1.125 6.3	0.4 10 0.76 76 1.52 152	0.6 15 0.50 50 1.0 100	0.8 20 0.38 38 0.76 76	1.0 25 0.60 60 1.5 25	1.2 30 0.25 25 0.50 50	1.6 40 0.19 19 0.38 38	2.0 50 0.15 15 0.30 30	3.0 75 0.10 10 0.20 20 10.50 75	0.05 5.0 0.10 10	12.0 300 0.03 2.6 0.05 5.2	XXX	
interface RS-232&RS-485 or Optional GPIB / odel Remote Voltage Programming (16 bit) solution (0.02% of Vo Rated) curacy 0.05%Vo Rated Output Voltage (*11) Remote Current Programming (16 bit) solution (0.002% of lo Rated) curacy (0.1% of lo Rated+0.1% of lo Actual Output) (*10 solution (0.002% of lo Rated) curacy (0.1% of lo Rated+0.1% of lo Actual Output) (*10 Readback Voltage solution of Vo Rated curacy 0.05% Vo Rated Readback Current solution fo lo Rated	V	0.12 3.0 2.00 200 4.0 400 0.12 3	0.16 4.0 1.80 180 3.60 360 0.16 4	0.25 6.3 1.20 120 2.40 240 1.125 6.3	0.4 10 0.76 76 1.52 152 1.20 10	0.6 15 0.50 50 1.0 100	0.8 20 0.38 38 0.76 76	1.0 25 0.60 60 1.5 25	1.2 30 0.25 25 0.50 50 1.2 30	1.6 40 0.19 19 0.38 38 1.60 40	2.0 50 0.15 15 0.30 30 11.0 50	3.0 75 0.10 10 0.20 20 10.50 75	0.05 5.0 0.10 10	12.0 300 0.03 2.6 0.05 5.2	X X X X	
interface RS-232&RS-485 or Optional GPIB / odel Remote Voltage Programming (16 bit) solution (0.02% of Vo Rated) curacy 0.05% Vo Rated Output Voltage (*11) Remote Current Programming (16 bit) solution (0.02% of lo Rated) curacy (0.1% of lo Rated+0.1% of lo Actual Output)(*10 solution (0.002% of lo Rated) curacy (0.1% of lo Rated+0.1% of lo Actual Output)(*10 Readback Voltage solution of Vo Rated curacy 0.05% Vo Rated Readback Current solution of lo Rated curacy 0.3% of lo Rated	V	0.12 3.0 2.00 200 4.0 400 0.12 3	0.16 4.0 1.80 180 3.60 360 0.16 4	0.25 6.3 1.20 120 2.40 240 1.125 6.3	0.4 10 0.76 76 1.52 152 1.20 10	0.6 15 0.50 50 1.0 100	0.8 20 0.38 38 0.76 76 1.2 20	1.0 25 0.60 60 1.5 25	1.2 30 0.25 25 0.50 50 1.2 30	1.6 40 0.19 19 0.38 38 1.60 40	2.0 50 50 15 15 0.30 30 11.0 50	3.0 75 0.10 10 0.20 20 10.50 75	0.05 5.0 0.10 10 12 150	12.0 300 0.03 2.6 0.05 5.2 12 300	XXX	
Indications 5 Interface RS-232&RS-485 or Optional GPIB / odel Remote Voltage Programming (16 bit) solution (0.02% of Vo Rated) curacy 0.05%Vo Rated Output Voltage (*11) Remote Current Programming (16 bit) solution (0.002% of lo Rated) curacy (0.1% of lo Rated+0.1% of lo Actual Output) (*10 solution (0.002% of lo Rated) curacy (0.1% of lo Rated+0.1% of lo Actual Output) (*10 Readback Voltage solution of Vo Rated curacy 0.05% Vo Rated Readback Current solution of lo Rated curacy 0.3% of lo Rated (*10) solution of lo Rated output curacy 0.3% of lo Rated (*10)	W MV MV MA MA MA MA MA MA	0.12 3.0 2.00 200 4.0 400 0.12 3 11 300 12	0.16 4.0 1.80 180 3.60 360 0.16 4 1.80 270 10.80	0.25 6.3 1.20 120 2.40 240 1.125 6.3 1.20 180 10.80	0.4 10 0.76 76 1.52 152 1.20 10	0.6 15 0.50 50 1.0 100 1.20 15	0.8 20 0.38 38 0.76 76 1.2 20	1.0 25 0.60 60 1.5 25	1.2 30 0.25 25 0.50 50 1.2 30	1.6 40 0.19 19 0.38 38 1.60 40 0.19 28.50 1.14	2.0 50 50 15 15 0.30 30 11.0 50	3.0 75 0.10 10 0.20 20 10.50 75	0.05 5.0 0.10 10 12 150 0.13 7.50 0.15	12.0 300 0.03 2.6 0.05 5.2 12 300	X X X X	
A Interface RS-232&RS-485 or Optional GPIB / del del Remote Voltage Programming (16 bit) solution (0.02% of Vo Rated) curacy 0.05%Vo Rated Output Voltage (*11) Remote Current Programming (16 bit) solution (0.002% of lo Rated) curacy (0.1% of lo Rated-10.1% of lo Actual Output) (*10 solution (0.002% of lo Rated) curacy (0.1% of lo Rated+0.1% of lo Actual Output) (*10 Readback Voltage solution of Vo Rated curacy 0.05% Vo Rated Readback Current solution of lo Rated curacy 0.05% of lo Rated (*10) solution of lo Rated curacy 0.3% of lo Rated (*10) solution of lo Rated curacy 0.3% of lo Rated (*10) solution of lo Rated curacy 0.3% of lo Rated (*10) solution of lo Rated (*10)	V	0.12 3.0 2.00 200 4.0 400 0.12 3	0.16 4.0 1.80 180 3.60 360 0.16 4	0.25 6.3 1.20 120 2.40 240 1.125 6.3	0.4 10 0.76 76 1.52 152 1.20 10	0.6 15 0.50 50 1.0 100	0.8 20 0.38 38 0.76 76 1.2 20	1.0 25 0.60 60 1.5 25	1.2 30 0.25 25 0.50 50 1.2 30	1.6 40 0.19 19 0.38 38 1.60 40	2.0 50 50 15 15 0.30 30 11.0 50	3.0 75 0.10 10 0.20 20 10.50 75	0.05 5.0 0.10 10 12 150	12.0 300 0.03 2.6 0.05 5.2 12 300	X X X X	
Interface RS-232&RS-485 or Optional GPIB / del Remote Voltage Programming (16 bit) solution (0.02% of Vo Rated) curacy 0.05%Vo Rated Output Voltage (*11) Remote Current Programming (16 bit) solution (0.002% of lo Rated) curacy (0.1% of lo Rated+0.1% of lo Actual Output)(*10 solution (0.002% of lo Rated) curacy (0.1% of lo Rated+0.1% of lo Actual Output)(*10 Readback Voltage solution of Vo Rated curacy 0.05% Vo Rated Readback Current solution fo lo Rated curacy 0.3% of lo Rated (*10) solution of lo Rated curacy 0.3% of lo Rated (*10) solution of lo Rated (*10) solution of lo Rated (*10) SOVP/UVL Programming	W MV MV MA MA MA MA MA MA	0.12 3.0 2.00 200 4.0 400 0.12 3 11 300 12	0.16 4.0 1.80 180 3.60 360 0.16 4 1.80 270 10.80	0.25 6.3 1.20 120 2.40 240 1.125 6.3 1.20 180 10.80	0.4 10 0.76 76 1.52 152 1.20 10	0.6 15 0.50 50 1.0 100 1.20 15	0.8 20 0.38 38 0.76 76 1.2 20	1.0 25 0.60 60 1.5 25	1.2 30 0.25 25 0.50 50 1.2 30	1.6 40 0.19 19 0.38 38 1.60 40 0.19 28.50 1.14	2.0 50 50 15 15 0.30 30 11.0 50	3.0 75 0.10 10 0.20 20 10.50 75	0.05 5.0 0.10 10 12 150 0.13 7.50 0.15	12.0 300 0.03 2.6 0.05 5.2 12 300	X X X X	
Interface RS-232&RS-485 or Optional GPIB / del Remote Voltage Programming (16 bit) Solution (0.02% of Vo Rated) Curacy 0.05%Vo Rated Output Voltage (*11) Remote Current Programming (16 bit) Solution (0.02% of lo Rated) Curacy (0.1% of lo Rated-1.1% of lo Actual Output) (*10 Solution (0.002% of lo Rated) Curacy (0.1% of lo Rated+0.1% of lo Actual Output) (*10 Readback Voltage Solution of Vo Rated Curacy 0.05% Vo Rated Readback Current Solution of lo Rated Curacy 0.05% of lo Rated Curacy 0.05% of lo Rated Curacy 0.05% of lo Rated Solution of lo Rated Curacy 0.3% of lo Rated (*10) Solution of lo Rated output	mV mV mV mA mA mA mA mA	0.12 3.0 2.00 200 4.0 400 0.12 3 11 300 12 600	0.16 4.0 180 3.60 360 0.16 4 1.80 270 10.80 540	0.25 6.3 1.20 120 2.40 240 1.125 6.3 1.20 180 10.80 360	0.4 10 0.76 76 1.52 152 1.20 10	0.6 15 50 50 1.00 100 1.20 15 1.25 75 1.50 1.50	0.8 20 0.38 38 0.76 76 1.2 20 1.14 57 1.14	1.0 25 0.60 60 1.5 25 1.20 90	1.2 30 0.25 25 0.50 50 1.2 30 1.13 37.50 1.25 75	1.6 40 0.19 19 0.38 38 1.60 40 0.19 28.50 1.14 57	2.0 50 15 15 0.30 30 11.0 50 22.50 1.05 45	3.0 75 0.10 10 0.20 20 10.50 75	0.05 5.0 0.10 10 12 150 0.13 7.50 0.15	12.0 300 0.03 2.6 0.05 5.2 12 300 0.12 3.90 0.10 7.8	X X X	

^{*1:} Minimum voltage is guaranteed to maximum 0.2% of Vo Rated. *2: Minimum current is guaranteed to maximum 0.4% of lo Rated.

^{*3:} At maximum output power.
*4: 85~132Vac or 170~265Vac, constant load.

^{*6:} From No-lon You Full-load, constant input voltage.

*6: From 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.

^{*8:} Time for the output voltage to recover within 0.5% of its rated for a load change 10 $\sim\!90\%$ of rated output , Output set-point: 10 $\sim\!100\%$.

^{*9:} For 6V-3-300V 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.



Laboratory Power Supplies: 750 ~ 1500W

General Specifications Genesys™ 750W/1500W

2.1 INPUT CHARACTERISTICS	
1. Input voltage/freg. (*1)	85~265Vac continuous, 47~63Hz, single phase
2. Power Factor	0.99 @100/200Vac, rated output power.
3. EN61000-3-2,3 compliance	Complies with EN61000-3-2 class A and EN61000-3-3 at 20~100% output power.
4. 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 20m5. 100% load.
o. Hold up time	inote than zonis, roovae, at 100 foods.
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	
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).
2.4 EMC	
2.4 EMC	
1. Applicable Standards:	IFC1000 4.2 At the property of the ARM
2. ESD	IEC1000-4-2. Air-disch8KV, contact disch4KV
3. Fast transients	IEC1000-4-4. 2KV
4. Surge immunity	IEC1000-4-5. 1KV line to line, 2KV line to ground
5. Conducted immunity	IEC1000-4-6, 3V
6. Radiated immunity	IEC1000-4-3, 3V/m
7. Conducted emission	EN55022B, FCC part 15J-B, VCCI-B.
8. Radiated emission	EN55022A, FCC part 15-A, VCCI-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.
	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, pins 14-16) are SELV, Sense, Remote
	Programming and Monitoring (pins 8-13, pins 21-25) are Hazardous. Models with 400V Vout 600V: Output is Hazardous, all communication/control interfaces (RS232/485, IEEE,
	Isolated Analog, LAN, Sense, Remote Programming and Monitoring) are Hazardous.
	Vout 50V models: Input-Output (SELV): 4Ž42VDC 1min, Input-communication/control (SELV): 4Z42VDC 1min, Input-Ground: 2828VDC 1min,
	60V Vout 150V models: Input-Output (Hazardous): 3425VDC 1min, Input-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):
	4242VDC 1min, Hazardous. Output-communication/control(SELV): 4242VDC 1min,
	Output(Hazardous)-Ground: 2738VDC 1min, Input-Ground: 2828VDC 1min.
4.Insulation resistance	More than 100Mohm at 25°C , 70% RH.
misuatori esistane	
2.6 MECHANICAL CONSTRUCTION	
1. Cooling	Forced air flow: from front to rear. No ventilation holes at the top or bottom of the chassis; Variable fan speed.
2. Dimensions (WxHxD)	W: 422.8mm, H: 43.6mm, D: 432.8mm (excluding connectors, encoders, handles, etc.)
3. Weight	750W: 7Kg (15 Lbs) 1500W: 8.5Kg (18 Lbs)
	750W: IEC320 AC Inlet.
4. AC Input connector	1500W: Screw terminal block, Phoenix P/N: FRONT-4-H-7.62, with strain relief
5. Output connectors	6V to 60V models: Bus-bars (hole Ø 8.5mm). 80V to 600V models: wire clamp connector, Phoenix P/N: FRONT-4-H-7.62
2.7 RELIABILITY SPECS	
1. Warranty	5 years.

^{*1:} 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.

Laboratory Power Supplies: 750 ~ 1500W

POWER SOLUTIONS www.heliosps.com

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.

Totanda Totand

Series operation

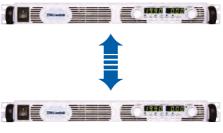
Up to two units may be connected in series to increase the output voltage or to provide bipolar output. (Max 600V to Chassis Ground).

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: IS510

P/N: IS420

P/N: LAN

LAN Interface Land Current Monitoring Accuracy ±1.5%

Land Compliant to Class C

- 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

Laboratory Power Supplies: 750 ~ 1500W



Power Supply Identification / Accessories How to order

GEN	600	- 2.6	
			Factory Options
Series Name	Output Voltage (0~600V)	Output Current (0~2.6A)	Option: IEEE IS510 IS420
	•		LAN

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	0.01/	0~90	720
GEN8-180	0~8V	0~180	1440
GEN12.5-60	0 13 5\/	0~60	750
GEN12.5-120	0~12.5V	0~120	1500
GEN20-38	0~20V	0~38	760
GEN20-76	U~2UV	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	0~60V	0~12.5	750
GEN60-25	U~60V	0~25	1500
GEN80-9.5	0~80V	0~9.5	760
GEN80-19	U~8UV	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 Voltage Programming Isolated Analog Interface Current Programming Isolated Analog Interface LAN Interface (Complies with LX Class C)

P/N

IEEE IS510 IS420 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	

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[™] power supplies.

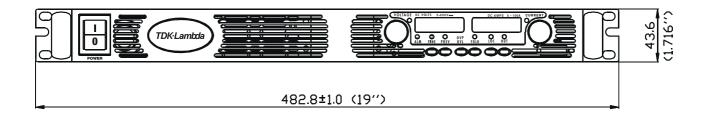
Mode	Power Supply Connector	Communication Cable	P/N
RS-485	EIA/TIA-568A (RJ-45)	Shield Ground L=50cm	GEN/RJ45

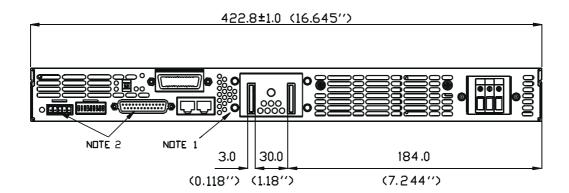
^{*} Included with power supply

Laboratory Power Supplies: 750 ~ 1500W



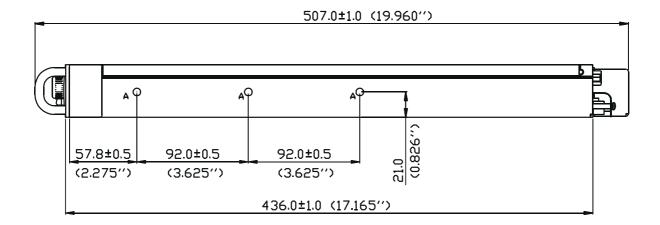
Outline Drawing Genesys™ 750W/1500W Units











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