

Programmable DC Power Supplies 5KW in 2U Built in RS-232 & RS-485 Interface Advanced Parallel Standard

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







The Genesys[™] 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 5kW in 2U
- Wide Range of popular worldwide AC inputs, 3ø (208VAC, 400VAC)
- Active Power Factor Correction (Three-Phase AC Input)
- Output Voltage up to 600V, Current up to 600A
- Built-in RS-232/RS-485 Interface Standard
- Global Commands for Serial RS-232/RS-485 Interface
- Auto-Re-Start / Safe-Start: user selectable
- Last-Setting Memory
- High Resolution 16 bit ADCs & DACs
- Low Ripple & Noise
- Front Panel Lock selectable from Front Panel or Software
- Reliable Encoders for Voltage and Current Adjustment
- Constant Voltage/Constant Current auto-crossover
- Parallel Operation with Active Current Sharing; up to four identical units.
- Advanced Parallel Master / Slave. Total Current is Programmed and Measured via the Master.
- Independent Remote ON/OFF and Remote Enable/Disable
- External Analog Programming and Monitoring (user selectable 0-5V & 0-10V)
- Reliable Modular and SMT Design
- 19" Rack Mount capability for ATE and OEM applications
- Optional Interfaces

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

LXI Compliant LAN

- LabView® and LabWindows® drivers
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Worldwide Safety Agency Approvals; CE Mark for LVD and EMC Regulation



Applications

Genesys[™] power supplies have been designed to meet the demands of a wide variety of applications.

System Designers will appreciate new, standard, remote programming features such as Global commands. Also, new high-speed status monitoring is available for the RS-485 bus.

Test Systems using the IEEE-488 bus may achieve significant cost savings by incorporating the Optional IEEE Multi-Drop Interface for a Master and up to 30 RS-485 Multi-Drop Slaves.

Higher power systems can be configured with up to four 5kW modules. Each module is 2U with zero space between them (zero stack).

Flexible configuration is provided by the complete Genesys™ Family: 1U 750W Half-Rack, 1U 750W/1500W 2U 3.3kW/5kW Full-Rack. All are identical in Front Panel, Rear Panel Analog, and all Digital Interface Commands.

OEM Designers have a wide variety of Inputs and Outputs from which to select depending on application and location.

Front Panel Description

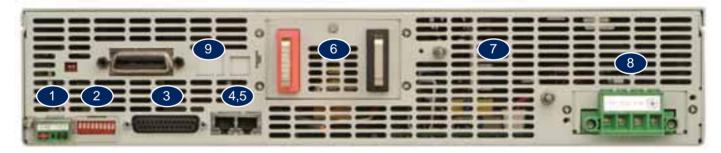


- 1. ON/OFF Switch
- 2. Air Intake allows zero stacking for maximum system flexibility and power density.
- 3. Reliable encoder controls Output Voltage, Address, OVP and UVL settings.
- 4. Volt Display shows Output Voltage and directly displays OVP, UVL and Address settings.
- 5. Reliable encoder controls Output Current, sets 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:
- Punction/Status LE
 Alarm

Foldback Mode

- •
- Fine ControlRemote 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 Lock
 - Parallel Master/Slave
 - Set OVP and UVL Limits
 - Set Current Foldback Protection
 - Go to Local Mode and select Address and Baud rate
 - Output ON/OFF and Auto-Re-Start/Safe-Start Mode

Rear Panel Description



- 1. Remote/Local Output Voltage Sense Connections.
- 2. DIP Switches select 0-5V or 0-10V Programming and other functions.
- 3. DB25 (Female) connector allows (Non-isolated) Analog Program and Monitor and other functions.
- 4. RS-485 OUT to other Genesys[™] Power Supplies.
- 5. RS-232/RS-485 IN Remote Serial Programming.
- 6. Output Connections: Rugged busbars (shown) for up to 100V Output; wire clamp connector for Outputs >100V.
- 7. Exit air assures reliable operation when zero stacked.
- 8. Input: 208 & 400VAC Three Phase, 50/60 Hz

AC Input Connector: PHOENIX CONTACT Power Combicon PC 6/... Series with strain relief.

9. Optional Interface Position for IEEE 488.2 SCPI (shown) or Isolated Analog Interface or LAN Interface.



Genesys [™] 5kW Specifications

										400 50	450.04	000 47	000
1.0 MODEL	GEN	8-600	10-500	16-310	20-250	30-170	40-125	60-85	80-65	100-50	150-34	300-17	600-8.
1.Rated output voltage(*1)	V	8	10	16	20	30	40	60	80	100	150	300	600
2.Rated Output Current(*2)	A	600	500	310	250	170	125	85	65	50	34	17	8.5
3.Rated Output Power 4.Development Priority	W	4800 A	5000 C	4960 B	5000 C	5100 B	5000 B	5100 A	5200 C	5000 C	5100 A	5100 B	5100 A
.1 CONSTANT VOLTAGE MODE		A	U	D	U	D	D	A	C	U	A	D	A
			4.0	1.0			4			10	45		00
1.Max.line regulation (0.01% of rated Vo)(*6)	mV mV	0.8	1.0 6.5	1.6 7.4	2 8	3 9.5	4	6 14	8	10 20	15 27.5	30 50	60 95
2.Max load regulation (0.015% of rated Vo+5mV)(*7) 3.Ripple and noise p-p 20MHz (*8)	mV	75	75	7.4	75	9.5	75	75	85	100	120	300	95 500
4.Ripple r.m.s 5Hz~1MHz	mV	10	10	10	10	10	10	10	12	15	25	35	120
5.Remote sense compensation/wire	V	2	2	2	2	5	5	5	5	5	5	5	5
	PPM/°C						nutes warm		5	5	5	5	5
7.Temp. stability							minutes wa		nstant line	, load & ten	np.		
B.Warm-up drift		Less that	n 0.05% of	rated outp	ut voltage+	2mV over	30 minutes	following p	ower On.				
9.Up-prog. response time, 0~Vo Rated (*9)	mS			30	mS					50mS			100
10.Down-prog response time Full-load (*9)	mS	15		50			80			1(00		200
No-load (*10)	mS	400	500	600	700	800	900	1000	1200	1500	2000	2500	3000
11.Transient response time	mS	Time for	output volta	age to reco	ver within (0.5% of its	rated outpu	it for a load	l change 1	0-90% of ra	ated output	t	
		Current. C	Dutput set-p	point: 10-10 r models u	J0%, local : n to and in	sense. cludina 10	0V. 2msec	for models	above 10	0\/			
		Less that	I IIIGEC IU	i mouels u	p to and in	cluuling 10	01. 211360		above to	0 0			
2 CONSTANT CURRENT MODE													
1.Max.line regulation (0.05% of lo rated)(*6)	mA	300	250	155	125	85	62.5	42.5	32.5	25	17	8.5	4.25
2.Max.load regulation (0.1% of lo rated)(*11)	mA	600	500	310	250	170	125	58	65	50	34	17	8.5
3.Ripple r.m.s 5Hz~1MHz. (*12)	mA	1950	1800	1400	1000	460	300 minutes wa	150	120	100	90	30	15
	PPM/°C				,		minutes wa minutes wa		etant line	load 8 to~	noratura		
5.Temp. stability							urrent over						
5.Warm-up drift							out current over						
		1 20 V~00L	v models:	Less เมลม	±0.20% 0I	raieu outp		JVEI JU IIII	101105 101101	ming power	011.		
.3 PROTECTIVE FUNCTIONS		0 4055	0										
I. OCP			Constant C		auge beet		01/44.000	llees	able				
2. OCP Foldback							CV to CC.			unionti	ort contra	nd	
3. OVP type							le or by OU						5 004
4. OVP trip point							2~44.1V				5~165.3V	5~330.7V	5~661
5. Output Under Voltage Limit 6. Over Temp. Protection			ectable , la			bon. Preve	ents from ac	ijusting voi	II woled II	nit.			
		USEI SEI	ectable, la		JII-latoneu.								
4 ANALOG PROGRAMMING AND MONITORING													
1.Vout Voltage Programming							l linearity:±0						
2.lout Voltage Programming (*13)							l linearity:±						
3.Vout Resistor Programming							acy and line						
4.lout Resistor Programming (*13)	0~100%, 0~5/10Kohm full scale, user select. Accuracy and linearity:±1.5% of rated lout.												
									orrateur	oui.			
5.On/Off control (rear panel)		By electr	ical. Voltag	je: 0~0.6V/	2~15V,or d	ry contact	,user selec		orrateur	out.			
5.On/Off control (rear panel) 6.Output Current monitor (*13)		By electr 0~5V or	ical. Voltag 0~10V , Ac	je: 0~0.6V/ curacy:±19	2~15V,or d % , user se	ry contact lectable.			orrated	out.			
5.On/Off control (rear panel) 6.Output Current monitor (*13) 7.Output Voltage monitor		By electr 0~5V or 0~5V or	ical. Voltag 0~10V , Ac 0~10V ,Aco	je: 0~0.6V/ curacy:±1% curacy:±1%	2~15V,or d % , user sel 6 ,user sele	ry contact lectable. ectable.	,user selec		orrated i	out.			
5.On/Off control (rear panel) 6.Output Current monitor (*13) 7.Output Voltage monitor 8.Power Supply OK signal		By electr 0~5V or 0~5V or TTL high	ical. Voltag 0~10V , Ac 0~10V ,Aco (4~5V) -O	ge: 0~0.6V/ curacy:±19 curacy:±19 K, 0V-Fail	2~15V,or d % , user sel 6 ,user sele 500ohm se	ry contact lectable. ectable. eries resist	user selec	table logic.			0.00		
5.On/Off control (rear panel) 6.Output Current monitor (*13) 7.Output Voltage monitor 8.Power Supply OK signal 9. CV/CC Indicator		By electr 0~5V or 0~5V or TTL high Open co	ical. Voltag 0~10V , Ac 0~10V ,Ac (4~5V) -O llector, CC	ge: 0~0.6V/ ccuracy:±19 curacy:±19 K, 0V-Fail mode: On,	2~15V,or d % , user sel 6 ,user sele 500ohm se CV mode:	ry contact lectable. ectable. eries resist Off, Maxir	user selec	table logic. e: 30V, ma			0mA		
5.On/Off control (rear panel) 6.Output Current monitor (*13) 7.Output Voltage monitor 8.Power Supply OK signal 9. CV/CC Indicator 10. Enable/Disable		By electr 0~5V or 0~5V or TTL high Open co Dry conta	ical. Voltag 0~10V , Ac 0~10V ,Aco (4~5V) -O Ilector, CC act. Open:c	e: 0~0.6V/ curacy:±19 curacy:±19 K, 0V-Fail mode: On, off , Short:	2~15V,or d %, user sele 6, user sele 500ohm se CV mode: on. Max. vo	ry contact lectable. ectable. eries resist Off, Maxir oltage at E	user selec	table logic. e: 30V, ma: ble in: 6V.	kimum sinl		0mA		
5.On/Off control (rear panel) 6.Output Current monitor (*13) 7.Output Voltage monitor 8.Power Supply OK signal 9. CV/CC Indicator 10. Enable/Disable 11. Local/Remote analog control		By electr 0~5V or 0~5V or TTL high Open co Dry conta By electr	ical. Voltag 0~10V, Ac 0~10V, Ac (4~5V) -O llector, CC act. Open:c ical signal	ge: 0~0.6V/ ccuracy:±19 curacy:±19 K, 0V-Fail mode: On, off , Short: o or Open/Sl	2~15V,or d %, user sele 6, user sele 500ohm se CV mode: on. Max. vo nort: 0~0.6	ry contact lectable. ectable. eries resist Off, Maxir oltage at E V or short:	user selection iance. num voltag nable/Disat Remote, 2	table logic. e: 30V, ma: ble in: 6V. ~15V or op	kimum sinl en: Local.	k current: 1	0mA		
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5.On/Off control (rear panel) 5.Output Current monitor (*13) 7.Output Voltage monitor 7.Output Voltage monitor 7.Output Voltage monitor 9.Power Supply OK signal 9. CV/CC Indicator 10. Enable/Disable 11. Local/Remote analog control 12. Local/Remote analog control Indicator 5 FRONT PANEL 1.Control functions 2.Display 3.Indications 6 Interface RS-232&RS-485 or Optic Model 1. Remote Voltage Programming (16 bit) Resolution (0.012% of Vo Rated)	V	By electr 0-5V or 0-5V or TTL high Open co Dry contr By electr Open co Vout/ lou OVP/UV On/Off_C Address Re-start Baud ratt Voltage: Current: Voltage, 8	ical. Voltag 0-10V, Ac 0-10V, A	je: 0-0.6V/ curacy:±19 curacy:±19 k, 0v-Fail mode: On, off , Short: or Open/SI al: Off, Rer djust by se djust by vo djust by v	2-15V,or d %, user sele 5, user sele 5, ouser sele 500ohm sz CV mode: on. Max. vc mote: 0-0.6' mote: 0-0.6' mote: 0-0.6' mote: 0-0.6' parate enco oft. Adjust e modes (aa or current) start, safe n 0,4800,960 5% of rated Preview, F 20	ny contact lectable. sctable. sctable. siries resist Off, Maxir V or short: Maximum v oders (coa ncoder. tto, safe), adjust ene node). 0 and 19, 4 output Vi output cu oldback, L	user selection of the s	table logic. e: 30V, ma: lei n: 6V. -15V or op /, maximun e adjustme pontrol (CV t ber of addr pount. unt. t On, Front 60	kimum sinl en: Local. n sink curr nt selectal o CC), Go esses:31. : Panel Loc 80	k current: 1 ent: 10mA. ble). to local co ck, CV/CC. 100	ntrol. 150		72
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Converted (rear panel) Couput Current monitor (*13) Couput Voltage monitor Power Supply OK signal CV/CC Indicator Cnable/Disable Local/Remote analog control Local/Remote analog control Indicator S FRONT PANEL Control functions Control functins Contrel functions Control functions Control functio	V mV mA mA mV mV	By electr 0-5V or 0-5V or TL high Open co Dry contr By electr Open co Vout/ lou OVP/UV On/Off_C Address Re-start Voltage: Current: Voltage, 8 0.96 8 72 2400 0.96 12	ical. Voltag 0-10V, Ac 0-10V, Ac 0-10V, Ac 0-10V, Ac (4-5V) -0 llector, CC act. Open: cat. open: ca	e: 0-0.6V/ curacy:±19 curacy:±19 k, 0v-Fail mode: On, off , Short: or Open/Sl al: Off, Rer djust by se djust by vo djust by vo	2-15V,or d %, user sele 5 ouser sele 5 ouser sele 5 ouser sele 5 ouser sele 5 ouser sele 5 ouser sele CV mode: on Max. vc mote: 0n. N parate enc ot: 0-0.6' mote: 0n. N parate enc ot: 0-0.6' parate enc ot: 0-0.6'	ny contact lectable. sctable. sctable. sctable. sctable. More and the scheme scheme off, Maximum v oders (coa ncoder. do and scheme scheme output scheme adjust end node). 00 and 19, d output V output scheme oldback, L 30 30 3.6 30 3.6 3.6 3.60 4.5	,user selection (1997) iance. num voltag nable/Disat Remote, 2: voltage: 300 arse and fin Foldback cc coder. Num 200. 201age ±1 cc rrent ±1 cot ocal, Outpu 40 40 40 40 40 40 40 40 40 60	table logic. a: 30V, ma: be: 30V, ma: be: 15V or op /, maximum e adjustme e adjustme e adjustme to or of addr ount. nt. t On, Front 60 7.2 60 10.2 340 7.2 90	kimum sinl en: Local. nt selectal o CC), Go esses:31. : Panel Loc 80 9.6 80 7.8 260 9.6 120	k current: 1 ent: 10mA. ble). to local co ck, CV/CC. 100 12 100 6.0 200 12 150	ntrol. 150 18 150 4.08 136 18 225	36 300 2.04 68 36 450	72 600 1.02 34 72 900
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Son/Off control (rear panel) Soutput Current monitor (*13) Coutput Voltage monitor Prower Supply OK signal CV/CC Indicator C. Enable/Disable C. Local/Remote analog control Indicator SFRONT PANEL Control functions Control functi	V mV mA mA mV mV	By electr 0-5V or 0-5V or TL high Open co Dry contr By electr Open co Vout/ lou OVP/UV On/Off_C Address Re-start Voltage: Current: Voltage, 8 0.96 8 72 2400 0.96 12	ical. Voltag 0-10V, Ac 0-10V, Ac 0-10V, Ac 0-10V, Ac (4-5V) -0 llector, CC act. Open: cat. open: ca	e: 0-0.6V/ curacy:±19 curacy:±19 k, 0v-Fail mode: On, off , Short: or Open/Sl al: Off, Rer djust by se djust by vo djust by vo	2-15V,or d %, user sele 5 ouser sele 5 ouser sele 5 ouser sele 5 ouser sele 5 ouser sele 5 ouser sele CV mode: on Max. vc mote: 0n. N parate enc ot: 0-0.6' mote: 0n. N parate enc ot: 0-0.6' parate enc ot: 0-0.6'	ny contact lectable. sctable. sctable. sctable. sctable. More and the scheme scheme off, Maximum v oders (coa ncoder. do and scheme scheme output scheme adjust end node). 00 and 19, d output V output scheme oldback, L 30 30 3.6 30 3.6 3.6 3.60 45	,user selection (1997) iance. num voltag nable/Disat Remote, 2: voltage: 300 arse and fin Foldback cc coder. Num 200. 201age ±1 cc rrent ±1 cot ocal, Outpu 40 40 40 40 40 40 40 40 40 60	table logic. a: 30V, ma: be in: 6V. -15V or op /, maximum e adjustme e adjustme e adjustme ount. ount. 000 7.2 60 7.2 60 7.2 90	kimum sinl en: Local. nt selectal o CC), Go esses:31. : Panel Loc 80 9.6 80 7.8 260 9.6 120	k current: 1 ent: 10mA. ble). to local co ck, CV/CC. 100 12 100 6.0 200 12 150	ntrol. 150 18 150 4.08 136 18 225	36 300 2.04 68 36 450	72 600 1.02 34 72 900 1.02
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5.On/Off control (rear panel) 5.Output Current monitor (*13) 7.Output Voltage monitor 7.Output Voltage monitor 7.Output Voltage monitor 7.Output Voltage monitor 9. Enable/Disable 11. Local/Remote analog control 12. Local/Remote analog control Indicator 5 FRONT PANEL 1. Control functions 2. Display 3. Indications 6. Interface RS-232&RS-485 or Optic Model 1. Remote Voltage Programming (16 bit) Resolution (0.012% of Vo Rated) Accuracy (0.1% of Vo Rated) Accuracy (0.3% of Io Rated)0 Accuracy (0.15% of Vo Rated) 3. Readback Voltage Resolution (0.012% of Vo Rated) 4. Readback Voltage Resolution (0.012% of Vo Rated) 4. Readback Current Resolution (0.012% of Vo Rated) 4. Readback Current Resolution (0.012% of Vo Rated) 4. Curacy (0.15% of Vo Rated) 4. Curacy (0.4% of Io Rated) 4. Cur	V mV mV mA mA mV mV mV	By electr 0-5V or 0-5V or TL high Open co Dry contr By electr Open co Vout/ lou OVP/UV On/Off_C Address Re-start Baud ratt Voltage: Current: Voltage, PIB / LA 8 0.96 8 72 2400 2400 72	ical. Voltag 0-10V , Ac 0-10V , Ac 0-10	pe: 0-0.6V/ ccuracy:±19 curacy:±19 k, 0v-Fail mode: On, off , Short: or Open/Sl al: Off, Rer djust by se djust by vo djust by	2-15V,or d %, user sele 5 (user sele 5 (ouser sele 5 (ouser sele 5 (ouser sele 5 (ouser sele 5 (ouser sele parate sele parate encolon parate encolon parate encolon parate encolon (or current) start, safe of review, F 20 20 22 2.4 20 30 1000 2.40 30 30	ny contact lectable. sctable. sctable. sctable. sctable. off, Maximum off, Maximum	,user selections in the selection of the	table logic. e: 30V, ma: lei n: 6V. -15V or op /, maximun e adjustme e adjustme ountrol (CV t ber of addr ount. unt. t On, Front 	kimum sinl en: Local. n sink curr nt selectal o CC), Go esses:31. : Panel Loc 80 9.6 80 7.8 260 9.6 120 7.8	k current: 1 ent: 10mA. ble). to local co ck, CV/CC. 100 12 100 6.0 200 12 150 6.0	ntrol. 150 18 150 4.08 136 18 225 4.08	36 300 2.04 68 36 450 2.04	72 600 1.02 34 72 900 1.02
.On/Off control (rear panel) .Output Current monitor (*13) .Output Voltage monitor .Power Supply OK signal . CV/CC Indicator 0. Enable/Disable 1. Local/Remote analog control 2. Local/Remote analog control Indicator 5 FRONT PANEL .Control functions .Display .Indications .6 Interface RS-232&RS-485 or Optic fodel . Remote Voltage Programming (16 bit) tesolution (0.012% of Vo Rated) .ccuracy (0.3% of Io Rated) .ccuracy (0.3% of Io Rated) .ccuracy (0.15% of Vo Rated) .ccuracy (0.4% of Io Rated) .ccuracy (0.4% of Io Rated) .ccuracy (0.4% of Io Rated) .ccuracy (0.4% of Io Rated)	V mV mV mA mA mV mV mA mA	By electr 0-5V or 0-5V or TTL high Open co Dry contr By electr Open co Vout/ lou OVP/UV On/Off_C Address Re-start Baud ratt Voltage: Current: Voltage, PIB / LA 8 8 0.96 8 72 2400	ical. Voltag 0-10V, Ac 0-10V, Ac 0-10V, Ac 0-10V, Ac (4-5V) -0 llector, CC act. Open: cical signal - llector, Loc t manual a L manual a Dutput on/o selection b modes (au e selection b nodes (au e se	pe: 0-0.6V/ ccuracy:±19 curacy:±19 k, 0v-Fail mode: On, off , Short: or Open/Sl al: Off, Rer djust by se djust by vo djust by	2-15V,or d %, user sele 5 (user sele 5 (ouser sele 5 (ouser sele 5 (ouser sele 5 (ouser sele 5 (ouser sele con Max. vc mode: 0n. N parate enc. of current) tart, safe r 0,4800,960 5% of rated Preview, F 20 20 2.4 20 30 1000 30 1000	ny contact lectable. sectable. sectable. sectable. orders (coal neoder. ito, safe), adjust ene node). io and 19, d output Vi output cu oldback, L 30 30 3.66 3.60 4.5 20.4 6.80	,user selec iance. num voltag nable/Disat Remote, 2 voltage: 300 arse and fin Foldback cr coder. Num 200.	table logic. e: 30V, ma: lei n: 6V. -15V or op /, maximun e adjustme e adjustme ontrol (CV t ber of addr ount. unt. t On, Front 60 7.2 60 7.2 90 10.2 340	kimum sinl en: Local. n sink curr nt selectal o CC), Go esses:31. : Panel Loc 80 9.6 80 7.8 260 9.6 120 7.8 260	k current: 1 ent: 10mA. ble). to local co ck, CV/CC. 100 12 100 6.0 200 12 150 6.0 200	ntrol. 150 18 150 4.08 136 18 225 4.08 136	36 300 2.04 68 36 450 2.04 68	72 600 1.02 34 72 900 1.02 34

*2: Minimum current is guaranteed to maximum 0.4% of rated output current.

*3: For cases where conformance to various safety standards (UL, IEC, etc) is required, to be described as 190-240Vac (50/60Hz) for 3-Phase 208V models,

and 380~415Vac (50/60Hz) for 3-Phase 400V models. *4: 3-Phase 208V models: At 208Vac input voltage, 3-Phase 400V:

At 380Vac input voltage. With rated output power. *5: Not including EMI filter inrush current, less than 0.2mSec.

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

*8: For 8V~300V models: Measured with JEITA RC-9131A (1:1) probe. For 600V model: Measured

with 10:1 probe.
*9: From 10% to 90% or 90% to 10% of Rated Output Voltage, with rated, resistive load.
*10:From 90% to 10% of Rated Output Voltage.

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

*12:For 8V-16V models, the ripple is measured from 2V to rated output voltage and rated output current. For other models, the ripple is measured at 10~100% of rated output voltage and rated output current.

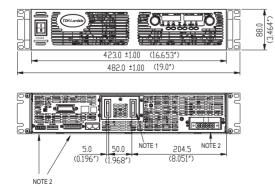
*13: The Constant Current programming readback and monitoring accuracy does not include the warm-up and Load regulation thermal drift.

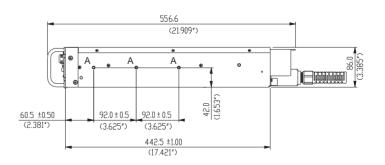
General Specifications Genesys[™] 5kW

2.1 INPUT CHARACTERISTI	63	GEN	8-600	10-500	16-310	20-250	30-170	40-125	60-85	80-65	100-50	1 50-3 4	300-17	600-8.
1. Input voltage/freq. (*3)		VAC						0~265Vrms	, 47~63Hz					
	VAC 3-Phase, 400V models: 342~460Vac, 47~63Hz													
2. MaximumInput 3-	Phase, 170V models:		21	22	22	22	22	22	22	22	22	22	22	22
	Phase, 342V models:	(A)	10.5	11	11	11	11	11	11	11	11	11	11	11
3. Power Factor (Typ)	111000,01211100000		0.94 AT 10	00% LOAD	AND 208V	/380V/400	V/415V							
4. INRUSH PEAK CURRENT		A	3-Phase 2	200V: 50A,	3-Phase 4	00V: 20A.	Not includi	ng the EMI	filter inrush	current, le	ess than 0.2	mSec.		
5. EFFICIENCY AT 200V AND 3	380V (A)	%	83	84	84	86	86	88	90	88	88	88	88	88
6. EFFICIENCY AT 170V AND 3	342V (A)	%	83	84	84	86	86	88	90	88	88	88	88	88
7. HOLD UP TIME (CV MODE)		mS	5mS Typic	cal										
8. PHASE IMBALANCE		%	≤5%											
9. LEAKAGE CURRENT			LESS TH	AN 3mA										
2.2 POWER SUPPLY CONFI	GURATION													
1. Parallel Operation		Up to 4 i	dentical ur	nits in mas	ter/slave n	node								
2. Series Operation							Max to C	hassis gro	und					
·			Jeniicai ui	III.S. WIIII C	Alemai ulu	ues. 000 v	IVIAN LO C	nassis gro	unu					
2.3 ENVIRONMENTAL COND	DITIONS													
1. Operating temp			100% load	d.										
2. Storage temp		-20~85°C	2											
3. Operating humidity		20~90%	RH (non-o	condensing	g).									
4. Storage humidity		10~95%	RH (non-o	condensin	g).									
5. Vibration		MIL-810	, method	514.5 , Th	e EUT is f	ixed to the	vibrating	surface.						
6. Shock		Less that	n 20G . ha	alf sine . 11	ImSec. Un	it is unpac	ked.							
7. Altitude		Operatin	g: 10000f		, Derate ou			100m abo	ve 2000m,	I				
8. RoHS Compliance		· ·		· ·	ents of Rol	-IS directiv	e.							
1.Applicable Standards:		1												
2.ESD		IEC1000	4.2 Aird	icob OKV	contact di	cob 4KV								
				1501101.1	CONILACT UI	50114r\ V								
3.Fast transients			-4-4. 2KV	P	01011	1								
4.Surge immunity				line to line	e, 2KV line	to ground								
5.Conducted immunity		IEC1000												
6.Radiated immunity			-4-3, 3V/m											
7.Magnetic field immunity)-4-8, 1A/r	n										
8.Voltage dips		EN61000												
9.Conducted emission		EN55022	2A, FCC p	art 15-A, \	/CCI-A.									
10. Radiated emission		EN55022	2A, FCC p	art 15-A, \	/CCI-A.									
.5 SAFETY														
1.Applicable standards:		CE Mark	, UL6095	0,EN6095	0 listed. V	out≤40V:C	utput is S	ELV , IEEE	/Isolated a	analog are	SELV.			
		40 <vout< td=""><td>≤400V: Ou</td><td>tput is haz</td><td>zardous, IE</td><td>EE/Isolate</td><td>ed analog</td><td>are SELV.</td><td></td><td></td><td></td><td></td><td></td><td></td></vout<>	≤400V: Ou	tput is haz	zardous, IE	EE/Isolate	ed analog	are SELV.						
								are not SI	ELV.					
2.Withstand voltage										DC 1min.				
2		Vout≤40V models :Input-Outputs (SELV): 4242VDC 1min, Input-Ground: 2828VDC 1min. 40 <vout≤100v 1min,="" 1min.<="" 2600vdc="" 4242vdc="" input-haz.="" input-selv:="" models:="" output:="" td=""></vout≤100v>												
											out-Ground:	2020\/DC	1 min	
								n, Input-SE			ut-Ground.	2020100	, 1111111.	
											ut-Ground:	2828\/DC	1 min	
3.Insulation resistance					; 70% RH		uous Ouip	Jul-Ground	.2070700	, 111011. 111p	ut-Ground.	2020100	, 1111111.	
					,									
.6 MECHANICAL CONSTRU	UCTION	Enroad -	ir flown fr-	m front to	roor No.	ntilation		ton or her	om of the	hoosis: V	ariable fan s	anood		
1. Cooling										,	anable tañ s	speed.		
2. Dimensions (WxHxD)		-	iii), H: 88N	nm, D: 442	2.5mm (e)	cruaing co	mnectors,	encoders,	nandles, e	ειC.)				
3. Weight		16 kg.												
 AC Input connector (with F 	Protective Cover)							F-10,16 ser						
5.Output connectors		8V to 10	OV models	: Bus-bar	s (hole Ø 1	0.5mm). 1	50V to 60	0V models	: wire clar	mp connec	tor, Phoeni	x P/N: FR	ONT-4-H-7	7.62
.7 RELIABILITY SPECS														
1. Warranty		5 years.												

All specifications subject to change without notice.

Outline Drawing Genesys[™] 5kW Units





NOTE

- 1. Bus bars for 8V to 100V models (shown)
 - Wire clamp connector for 150V to 600V models
- 2. Plug connectors included with the power supply
- 3. Chassis slides mounting holes #10-32 marked "A" GENERAL DEVICES P/N: C-300-S-116 or equivalent



Genesys[™] 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.



Digital Programming via IEEE Interface

- IEEE 488.2 SCPI Compliant
- Program Voltage
- Measure Voltage
- Over Voltage setting and shutdown
- · Error and Status Messages
- New! Multi-Drop
 - · Allows IEEE Master to control up to 31 slaves over RS-485 daisy-chain
 - Only the Master needs be equipped with IEEE Interface

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. P/N: IS510 Power supply Voltage and Current Programming Accuracy ±1% Power supply Voltage and Current Monitoring Accuracy ±1.5% • Current Programming with 4-20mA signal. P/N: IS420 Power supply Voltage and Current Programming Accuracy ±1% Power supply Voltage and Current Monitoring Accuracy ±1.5%

LAN Interface

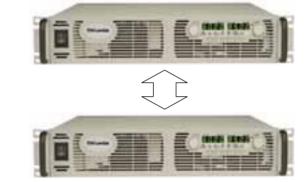
LXI Compliant to Class C P/N: LAN

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

- Program Current
- Measure Current
- Current Foldback shutdown

5 | GenesysTM 5kW-2U





P/N: IEEE

VISA & SCPI Compatible

Fast Startup

Power Supply Identification / Accessories How to order

GEN	8 -	600 -		-
			Factory Options:	Factory AC Input Options:
Series Name	Output Voltage (0~8V)	Output Current (0~600A)	Option: IEEE IS510 IS420 LAN	3P208 (Three Phase 170~265VAC) 3P400 (Three Phase 342~460VAC)

Models 5kW

	Output	Output	Output
Model	Voltage	Current	Power
	VDC	(A)	(W)
GEN 8-600	0~8V	0~600	4800
GEN 10-500	0~10V	0~500	5000
GEN 16-310	0~16V	0~310	4960
GEN 20-250	0~20V	0~250	5000
GEN 30-170	0~30V	0~170	5100
GEN 40-125	0~40V	0~125	5000

	Output	Output	Output
Model	Voltage	Current	Power
	VDC	(A)	(W)
GEN 60-85	0~60V	0~85	5100
GEN 80-65	0~80V	0~65	5200
GEN 100-50	0~100V	0~50	5000
GEN 150-34	0~150V	0~34	5100
GEN 300-17	0~300V	0~17	5100
GEN 600-8.5	0~600V	0~8.5	5100

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)

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	DB-9F Shield Ground L=2m	DB-9F Shield Ground L=2m	DB-25F Shield Ground L=2m
Power Supply Connector	EIA/TIA-568A (RJ-45)	EIA/TIA-568A (RJ-45)	EIA/TIA-568A (RJ-45)
P/N	GEN/485-9	GEN/232-9	GEN/232-25

P/N

IEEE

IS510

IS420

LAN

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 2U full Rack 3300W



