ТМ Genesy

New ! 800V, 1000V, 1250V and 1500V models - 10KW/15KW - 208VAC/400VAC/480VAC **Programmable DC Power Supplies** Full-Rack 10kW/15kW in 3U Height Built in RS-232 & RS-485 Interface Parallel Operation (Basic or Advanced)

Optional Interfaces: LAN (LX compliant w/ Multi-Drop) IEEE (488.2 & SCPI compliant w/ Multi-Drop) USB (2.0 w/ Multi-Drop) Isolated Analog (5V/10V or 4-20mA Pgm/Mon)



Genesys[™] Family GENH-1U 750W Half-Rack GEN-1U 750W/1.5kW/2.4kW Full-Rack GEN-2U 3.3kW/5.0kW Full-Rack GEN-3U 10kW/15kW Full-Rack

TDK·Lambda

www.us.tdk-lambda.com/hp

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 10kW/15kW in full-rack 3U package
- High Output Current (up to 1000ADC)
- Popular worldwide 3Φ AC inputs, (208VAC, 400VAC, 480VAC)
- Power Factor 0.88 (Passive PFC on all 3Φ AC Inputs)
- Output Voltage from 7.5V (1000A) to 1500V (10A)
- Built-in RS-232/RS-485 Serial Interface (standard)
- Last Setting Memory, Safe/Auto-ReStart, Front Panel Lock/Unlock
- "Advanced Parallel" configuration reports total system current (up to four identical units)
- Global Commands for RS-232/RS-485 Serial Interface
- Continuous Encoders for Voltage and Current Adjustment (Coarse & Fine mode)
- Independent Remote SHUTOFF and Remote ENABLE/DISABLE
- 19" Rack Mounted for ATE and OEM Applications, zero-stack capability
- Optional Interfaces

LXI compliant LAN (Class C) w/ Multi-Drop capability: option for all models IEEE (488.2 & SCPI compliant) w/ Multi-Drop capability: option for all models USB (2.0) w/ Multi-Drop capability: option for all models Isolated Analog Programming and Monitoring Interface 0-5V/0-10V: option for models with Vout ≤ 600V, standard for models with Vout ≥ 800V

- 4-20mA: option for all models
- LabView[™] and LabWindows[™] Software Drivers
- Worldwide Safety Agency Approvals; UL Recognized and CE Mark for LV, EMC and RoHS2 Directives (208VAC (all models), 400VAC (all models) and 480VAC models (30V ≤ Vout ≤ 1500V))
- Five Year Warranty

Applications

Genesys[™] power supplies are designed for demanding applications.

Test & Measurement systems using GPIB control save significant costs by incorporating the optional IEEE Multi-Drop Interface (IEMD) in the Master unit. This allows up to 30 Slave units to be used with the standard RS-485 Multi-Drop Serial interface.

Automated System designers will appreciate new, standard, remote programming features such as Global commands. Also, new high-speed status monitoring is available for the standard RS-485 and optional LAN (LXI compliant) Interface.

Industrial & Military high power systems can be configured with up to four identical units in parallel (up to 60kW). No space is required above or below each power supply (zero-stack). The Master unit can be configured by the user to report the total Output current of the combined system. Applications include Heaters, Magnets and Laser Diodes.

Aerospace & Satellite Testing systems use the complete Genesys[™] Family: <u>1U</u>-750W Half-Rack, <u>1U</u>-750W/ 1.5kW/2.4kW Full-Rack, <u>2U</u>-3.3kW/5kW Full-Rack and <u>3U</u>-10kW/15kW Full-Rack. All are identical in Front Panel, Rear Panel Analog and Digital Interface commands. A wide variety of Outputs (voltage and current) allows testing of many different user configurations.

Component Device Testing is simplified because of the many user-friendly control options in the Analog and Digital interfaces. Lamps, capacitors, motors and actuators are typical devices tested.

Medical Imaging and Treatment systems require reliable power. Modular construction, SMT and thoroughly proven designs assure continuous performance at full rated power.

Semiconductor Processing & Burn-in equipment designers appreciate the wide variety of worldwide AC Inputs and DC Outputs from which to select, depending on application. Selectable Safe-Start and Auto Re-Start protects loads and process integrity. Typical applications include Magnets, Filaments and Heaters.

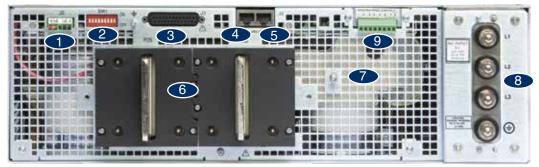


Front Panel Description (7.5V \leq Vout \leq 25V)



- 1. AC ON/OFF Switch (circuit breaker for Vout \leq 25V; rocker switch for Vout \geq 30V models)
- 2. Air Intake allows zero-stacking for maximum system flexibility and power density.
- 3. Continuous encoder controls Output Voltage, Address, OVP and UVL settings.
- 4. Voltage Display shows Output Voltage and directly displays OVP, UVL and Address settings.
- 5. Continuous encoder controls Output Current, sets Baud rate and Advanced Parallel mode.
- 6. Current Display shows Output Current and displays Baud rate. Displays total current in Parallel Master/Slave Mode.
- 7. Function/Status LEDs:
 - Alarm
 - Foldback Mode
- Fine Control
 Prev
- Remote Mode
- Preview Settings
- Output On
- 8. Pushbuttons allow flexible user configuration
 - Coarse and Fine adjustment of Output Voltage/Output Current and Advanced Parallel Master or Slave select.
 - Preview Settings and set Voltage/Current with Output OFF, Front Panel Lock/Unlock.
 - Parallel Master/Slave (Basic and Advanced).
 - Set Output OVP and UVL Limits.
 - Set Output Current Foldback Protection.
 - Go to Local Mode and select unit Address and Baud rate.
 - Output ON/OFF and Safe-Start/Auto Re-Start mode.

Rear Panel Description (7.5V \leq Vout \leq 25V)



- 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 Analog Program and Monitor (non-isolated) and other functions.
- 4. RS-485 OUT to other Genesys[™] Power Supplies.
- 5. RS-232/RS-485 IN Remote Serial Programming.
- 6. Output Connectors: Rugged 2 hole busbars (shown) for models where Vout < 30V,
- single hole busbars for $30V \le Vout \le 300V$ Output, and threaded-stud terminals for models where Vout > 300V. 7. Exit air assures reliable operation when zero-stacked.
- 8. Input Terminals L1, L2, L3, and Ground (threaded studs).
- 9. Optional location for LAN (LXI Class C), IEEE (488.2 & SCPI compliant), USB (2.0) or Isolated Analog Interface.



Genesvs[™] 3U 10kW Specifications

1.0 MODEL	GEN		10-1000		20-500	25-400	30-333	40-250	50-200	60-167	80-125	100-100	125-80	X
1.Rated Output Voltage	VDC	7.5	10	12.5	20	25	30	40	50	60	80	100	125	X
2.Rated Output Current	ADC	1000	1000	800	500	400	333	250	200	167	125	100	80	X
3.Rated Output Power	kW	7.5	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	X
4.Efficiency (min) at low AC line, 100% Rated Load	%	77						83						X
11 CONSTANT VOLTAGE MODE (CV)					С	ontact Fa	ctory for o	other mod	els					X
1.1 CONSTANT VOLTAGE MODE (CV) 1. Max. Line Reg (0.1% - Vor ≤ 30V; 0.01% - 30V < Vor ≤	1	1												T
1. Max. Life Reg (0.1% - vor \leq 30V; 0.01% - 30V < vor \leq 600V; 0.05% - 600V < Vor \leq 1500V)	mV	7.5	10	12.5	20	25	30	4	5	6	8	10	12.5	X
2. Max. Load Reg (0.1% for Vor \leq 30V; 0.02% for 30V < Vor														
\leq 600V; 0.1% for 600V < Vor \leq 1500V); (*5)	mV	7.5	10	12.5	20	25	30	8	10	12	16	20	25	X
3. Output Ripple, rms (5Hz~1MHz), CV mode; (*1)	mV	nV 20 20 20 20 20 20 20 20 20 20 25 25 25								X				
4. Output Noise, p-p (20MHz), CV mode; (*1)	mV									X				
5.Remote Sense Compensation / Wire	V	1	1	1	1	1	1.5	2	3	3	4	5	5	X
6. Temperature Stability				<u>,</u>		ter 30 mi	nute warn	n up (cons	tant Line	, Load &	Temperatu	ure)		X
7. Temperature Coefficient	ppm / °C	± 200 (±	± 0.02% o	f Vo(rated)) / °C									X
8. Up-Prog. Response Time, 0 ~ Vomax, full-load	ms							100						X
9. Up-Prog. Response Time, 0~Vomax, no-load	ms							50						X
10. Transient Response Time (CV mode); (*2), (*4)	ms						Les	s than 3						X
1.2 CONSTANT CURRENT MODE (CC)	•													
1. Max. Line Reg. (0.1% - lor ≥ 333A; 0.050% - 17A < lor < 333A; 0.15% - lor < 17A)	mA	1000	1000	800	500	400	333	125	100	83.5	62.5	50	40	x
2. Max. Load Reg (0.1% - Ior ≥ 333A; 0.075% - 17A ≤ Ior < 333A; 0.2% - Ior < 17A); (*3), (*5)	mA	1000	1000	800	500	400	333	188	150	125	94	75	60	x
3. Output Ripple, rms (5Hz~1MHz), CC mode	mA	5300	4000	2560	1000	640	444	250	160	67	50	40	32	X
4. Temperature Stability						ter 30 mi	nute warn	n up (cons	tant Line	, Load &	Temperatu	ure)		X
5. Temperature Coefficient	ppm/°C	± 300 (=	⊧ 0.03% o	f Io(rated)) / °C									X
1.3 PROTECTIVE FUNCTIONS														
1. OCP	%	0 ~ 100												X
2. OCP type			nt current											X
3. Foldback Protection (FOLD)											n, user-sel	ectable		X
4. Foldback Response Time	S		an 1 (Min											X
5. OVP type				n; Manua	reset by	AC On/O	ff recycle	OUT but	on, Rem	ote Analo	g or Digita	al commuine	cation	X
6. OVP Programming Accuracy	%		Vo(rated)	(rotod) fo	- Vor - CC	01/1 100/	1050/	4 \/o / + 0 to /	1) for COO	V . Ver	15001/			X
7. OVP Trip Point	V	Shall al	05% of Vo ways be g	reater tha	n 105% c	f Vo(setti	ng); Defa	ult = 105%			15000			X
8. OVP Response Time	ms	Less that	an 10 (for an 2.0 (for	Output to	begin to				v					X
9. Max. OVP Reset Time	S		AC On/Of		,									X
10. Over-Temperature Protection (OTP) 11. Phase-Loss Protection			wn it inter wer supply								nlatched: A	Auto)		X X
		165, p0	wei suppi	/ Shutuow	II (Latone	u. Jaie-c		alcheu. Al	10-116518					
1.4 REMOTE ANALOG CONTROLS & SIGNALS	0.4000/	0 51/	0 101/		A-1-1- A-		I for a soften	40/ -41	- (t1)					
Vout Voltage Programming Out Voltage Programming	0~100%, 0~100%,								,					X X
3. Vout Resistor Programming	0~100%, 0~100%,									ated)				<u> </u> Â
4. lout Resistor Programming	0~100%,													X
5. Shut-Off (SO) Control (rear panel)											iser-select	able logic)		X
6. Output Current Monitor	0 ~ 5V or								,	- (-				1 X
7. Output Voltage Monitor	0 ~ 5V or													X
8. Power Supply OK (PS_OK) Signal	Yes. TTL	High = Oł	K, OV = Fa	il (500ohr	n series i	mpedanc	e)							X
9. CV/CC Signal	CV: TTL I	-ligh (4 ~ ∜	5V), Max :	source cu	rrent = 10	mA; CC:	TTL Low	(0 ~ 0.4V)	, Max sir	nk current	= 10mA			X
10. Enable/Disable	Dry conta	act; Open	= OFF, Sh	ort = ON;	Maximur	n voltage	across E	nable/Dis	able cont	acts = 6V				X
11. Remote/Local Selection	Selects F				-									X
12. Remote/Local Signal	Signals o	perating n	node; Ope	en collecto	or: Local =	Open (N	lax voltaç	je = 30V),	Remote	= On (Ma	ax sink cur	rrent = 10m	A)	X
1.5 FRONT PANEL														
1.Control Functions	Vout/ Iout	t manual a	djust by s	eparate e	ncoders	COARSE	and FIN	E adjustm	ient sele	ctable)				X
	OVP/UVL	. manual a	adjust by \	/OLTAGE	Adjust er	coder, Fr	ont Pane	Lock/Unl	ock					X
	Address	selection b	by VOLTA	GE Adjust	encoder.	# of Add	resses = 3	31						X
	AC ON/O), Go-to-L	ocal			X
	RS-232/F			. ,			• •							X
											F Adjust er	ncoder)		X
	Advanced						x = # of \$	slave unit	s (0 to 4)	, S = Slav	e unit(s)			X
2.Display	Voltage: 4	U ,			· ,									X
	Current: 4	•			,		000001	ot load /	Domete -	onoc)				X
3.Indications	VOLTAGE Green LE													X
0.indicad0118		: D'S: PRE' : ALARM (CC, FINE						X
			2.1,011	,, <i>P</i>	, I		-							
1.6 DIGITAL PROGRAMMING & READBACK	. 0.5%	No/mate **												
Vout Programming Accuracy	± 0.5% of			with Ic	0754	70/ -41-	(roted) f-	r lo > 107	- ^					X
2. lout Programming Accuracy 3. Vout Programming Resolution	± 0.5% of 0.02% of		IOT UNITS V	viiii i0 < 1	o7.5A;±(J. 1 % OT 10	(rated) fo	102187.	А					X X
4. lout Programming Resolution	0.02% of													X
5. Vout Readback Accuracy								Â						
6. lout Readback Accuracy	± (0.1% c													X
0. Iour Headback Accuracy														

7. Vout Readback Resolution 0.02% of Vo(rated) 8. lout Readback Resolution 0.02% of lo(rated) 9. OV Response Time

20ms maximum (between Vout exceeding IEEE Limit and supply Inhibit turning On) 10. Other Functions Set OVP/UVL limits; Set Local/Remote, Operating parameters and Status, Get Identity

*1 Ripple and Noise at Vo(rated) and rated Load, Ta = +25C and nominal AC Input per EIJ R900A.

*2. Time for the Output voltage to recover within 2% of rating for a load current change of 50~100% or 100-50% of lo(rated). *3 .From 20% - 100% for models with lor < 17A.

*4 Operating with a load that continuously pulses the current (or voltage) can reduce the operating life of the Power Supply. Please contact TDK-Lambda Sales/Technical Support to discuss the application in detail.

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S.CV Mode: from 5% to 100% of Irated (over 5% to 100% of Prated); CC Mode: from 20% to 100% of Vrated (over 20% to 100% of Prated). All specifications subject to change without notice.

Genesys[™] 3U 10kW Specifications

1.0 MODEL	GEN	150-66	200-50	250-40	300-33	400-25	500-20	600-17	800-12.5	1000-10	1250-8	1500-6.7	×
1.Rated Output Voltage	VDC	150	200	250	300	400	500	600	800	1000	1250	1500	X
2.Rated Output Current	ADC	66	50	40	33	25	20	17	12.5	10	8.0	6.7	l x
3.Rated Output Power	kW	9.9	10.0	10.0	9.9	10.0	10.0	10.2	10.0	10.0	10.0	10.0	
4.Efficiency (min) at low AC line, 100% Rated Load	%				83						93.5		
1.1 CONSTANT VOLTAGE MODE (CV)	1				Con	tact Facto	ry for othe	er models	\$				
1. Max. Line Reg (0.1% - Vor ≤ 30V; 0.01% - 30V < Vor ≤													Ē
$600V; 0.05\% - 600V < Vor \le 1500V)$	mV	15	20	25	30	40	50	60	400	500	625	750	
2. Max. Load Reg (0.1% - Vor ≤ 30V; 0.02% - 30V < Vor ≤	<u> </u>												
$600V; 0.1\% - 600V < Vor \le 1500V); (*5)$	mV	30	40	50	60	80	100	120	800	1000	1250	1500	
3. Output Ripple, rms (5Hz~1MHz), CV mode; (*1)	mV	25	35	35	60	60	60	60	80	100	120	140	
4. Output Noise, p-p (20MHz), CV mode; (*1)	mV	150	175	200	200	300	350	350	700	800	1000	1400	Î
5.Remote Sense Compensation / Wire	V	5	5	5	5	5	5	5	5	5	5	5	Î
6. Temperature Stability		± 0.05%	6 of Vo(ra	ted) over	8 hours	after 30 m	inute warr	n up (cor	nstant Line,	Load & Te	emperature))	
7. Temperature Coefficient	ppm / °C	± 200 (0.02% of	Vo(rated)) / °C								
Up-Prog. Response Time, 0~Vomax, full-load	ms				100						7		
9. Up-Prog. Response Time, 0~Vomax, no load	ms				50						7		
0. Transient Response Time (CV mode); (*2), (*4)	ms				Less thar	n 3				Less	than 1		
.2 CONSTANT CURRENT MODE (CC)													
. Max. Line Reg. (0.1% - lor ≥ 333A; 0.050% - 17A < lor <	<u> </u>												Γ
33A; 0.15% - lor < 17A)	mA	33	25	20	17	13	10	9	19	15	12	10	
. Max. Load Reg (0.1% - Ior ≥ 333A; 0.075% - 17A ≤ Ior <	m 4	50	20	20	05	10	45	10	05	20	45	14	Γ
33A; 0.2% - lor < 17A); (*3), (*5)	mA	50	38	30	25	19	15	13	25	20	15	14	
3. Output Ripple, rms (5Hz~1MHz), CC mode	mA	26	20	16	13	10	8	7	15	10	6	4	
I. Temperature Stability		± 0.05%	6 of Io Ra	ated over	8 hours a	fter 30 mi	nute warm	up (con	stant Line,	Load & Te	mperature)		Γ
5. Temperature Coefficient	ppm / °C	± 300 (0.03% of	lo(rated)) / °C								Γ
.3 PROTECTIVE FUNCTIONS													_
	%	0 ~ 100											Г
2. OCP type			nt current		_								┢
B. Foldback Protection (FOLD)		<u> </u>			l rosot by	front non		tton or D	igital comm	unication	, user-selec	tablo	┢
I. Foldback Response Time	s	<u> </u>							ia "FBD" co	_	, user-selec	lable	╎
5. OVP type											or Digital co		┢
6. OVP Programming Accuracy	%		f Vo(rated		ailesetb	y AC ON/C		, 001 bi		Analog	Digital C		┢
• • •	1				for Vor	6001/- 109	% to 105%	of Vo(ra	ted) - 600V	/ _ Vor _ 1	5001/		┢
7. OVP Trip Point	V								% of Vo(rate		500 v		
						o drop) for			/				t
8. OVP response time	ms	Less the	an 2.0 (fo	or Output	to begin t	o drop) fo	r 600V < \	/or <u><</u> 150	0V				
9. Max. OVP reset time	s	7 (from	AC On/O	off switch	turn On)								
10. Over-Temperature Protection (OTP)		Shut do	wn if inte	rnal temp	perature e	exceeds sa	afe operat	ng levels	. (Latched:	Safe / Unl	latched: Aut	o)	
11. Phase-Loss Protection		Yes, po	wer supp	ly shutdo	wn (Latch	ned: Safe-	Start / Unl	atched: A	Auto-Restar	rt)			
1.4 REMOTE ANALOG CONTROLS & SIGNALS													
1. Vout Voltage Programming	0~100%	0 ~ 5V or	0 ~ 10V	user-sele	ctable A	ccuracy &	Linearity.	+ 1% of	Vo(rated)				Г
2. lout Voltage Programming						ccuracy &				-			
3. Vout resistor programming					_				6 of Vo(rate	d)			⊢
4. lout Resistor Programming									6 of lo(rated				┝
5. Shut-Off (SO) Control (rear panel)										/	selectable I	ogic)	┢
6. Output Current Monitor						, user-sele				- ,		5.7	┢
7. Output Voltage Monitor						, user-sele							⊨
B. Power Supply OK (PS_OK) Signal						impedanc		_		-			⊨
9. CV/CC Signal						· ·		(0 ~ 0.4)	/), Max sinl	k current =	10mA		Γ
10. Enable/Disable									sable conta				t
11. Remote/Local Selection	<u> </u>					0 ~ 0.6V		_					Γ
12. Remote/Local Signal	Signals o	perating r	node; Op	en collec	tor: Loca	= Open (Max volta	ge = 30V), Remote =	On (Max	sink currer	nt = 10mA)	Γ
I.5 FRONT PANEL			/ P					-				, ,	-
I.Control Functions	Vout/ lout	monuol	-	oonoroto	onoodor		E and EIN	E adjust	ment select	table)			<u>т</u>
				•		encoder, F				lable)			⊢
						# of Addres		LUCKOI	IIUCK				⊢
								Control (CV to CC),	Gosto-Lor	nal		⊢
					,	selection				G0-10-L01	Jai		⊢
				,							Adjust enco	dor)	⊢
			`		.,				its (0 to 4),				\vdash
P.Display						d) ±1 coun		Jiave un	10 (0 10 4),	Slave = Sl			⊢
Luspiay	Current: 4	-				,	ii.						\vdash
								r at load	(Remote se	anco)			\vdash
3.Indications						, OUT ON				5130)			⊢
0.1110104110113						, OUT ON ENA, SO		JU, FIN	-				
			<u>, , O</u>	<u>,</u> ,		,	,						<u> </u>
	. 0.50/	Va/r-1- "											Π
. Vout Programming Accuracy	± 0.5% of				1075	0.70/ / /	- (+		75 4				⊢
2. Iout Programming Accuracy	÷			with Io <	187.5A; ±	0.7% of I	o(rated) fo	or io ≥18.	7.5A				⊢
3. Vout Programming Resolution	0.02% of												
4 Jourt Brogramming Bosolution	1 0 0/10/2 ~*	In(ratad)											

2. Tour Trogramming / toouraby		~
3. Vout Programming Resolution	0.02% of Vo(rated)	X
4. Iout Programming Resolution	0.04% of lo(rated)	X
5. Vout Readback Accuracy	± (0.1% of Vo(actual) + 0.2% of Vo(rated))	X
6. lout Readback Accuracy	$\pm (0.1\% \text{ of Vo(actual)} + 0.4\% \text{ of Vo(rated)})$	X
7. Vout Readback Resolution	0.02% of Vo(rated)	X
8. Iout Readback Resolution	0.02% of lo(rated)	X
9. OV Response Time	20ms maximum (between Vout exceeding IEEE Limit and supply Inhibit turning On)	X
10. Other Functions	Set OVP/UVL limits; Set Local/Remote, Operating Parameters and Status; Get Identity	X

 11. Since Functions
 12. Set OVF/OC limits, Set Edu/Hender, Operating Parameters and Status, Get Identity
 12. The forthe Output voltage to recover within 2% of rating for a load current change of 50~100% or 100~50% of lo(rated).
 13. From 20% - 100% for models with lor < 17A.
 14. Operating with a load that continuously pulses the current (or voltage) can reduce the operating life of the Power Supply. Please contact TDK-Lambda Sales/Technical Support to discuss the
 recover to discuss the application in detail. *5. CV Mode: from 5% to 100% of Irated (over 5% to 100% of Prated); CC Mode: from 20% to 100% of Vrated (over 20% to 100% of Prated). All specifications subject to change without notice.



101/04

Genesys[™] 3U 15kW Specifications

1.0 MODEL	GEN	N/A	N/A	N/A	N/A	N/A	30-500	40-375	50-300	60-250	80-187.5	100-150	125-120	_
1.Rated Output Voltage	VDC						30	40	50	60	80	100	125)
2.Rated Output Current	ADC						500	375	300	250	187.5	150	120)
3.Rated Output Power	kW						15.0	15.0	15.0	15.0	15.0	15.0	15.0)
4.Efficiency (min) at low AC line, 100% Rated Load	%									88)
					C	ontact Fa	ctory for c	ther mod	els					2
1.1 CONSTANT VOLTAGE MODE (CV)														
1. Max. Line Reg (0.1% - Vor ≤ 30V; 0.01% - 30V < Vor ≤	mV						30	4	5	6	8	10	12.5	
$\frac{600V; 0.05\% - 600V < Vor \le 1500V)}{2000000000000000000000000000000000000$									-	-	-		-	-
2. Max. Load Reg (0.1% - Vor ≤ 30V; 0.02% - 30V < Vor ≤ 600V; 0.1% - 600V < Vor ≤ 1500V); (*5)	mV						30	8	10	12	16	20	25	
3. Output Ripple, rms (5Hz~1MHz), CV mode; (*1)	mV						20	20	20	20	25	25	25	
4. Output Noise, p-p (20MHz), CV mode; (*1)	mV						60	60	75	75	100	100	125	
5.Remote Sense Compensation / Wire	V						1.5	2	3	3	4	5	5	1
6. Temperature Stability														
7. Temperature Coefficient	ppm / °C			f Vo(rated		00 111	inte warn			, 2000 0	iomporata	10)		
8. Up-Prog. Response Time, 0 ~ Vomax, full-load	ms	1 200 (1	0.02 /0 0	1 10(1000	<i>/// 0</i>			100						
9. Up-Prog. Response Time, 0~Vomax, no load	ms							50						
10. Transient Response Time (CV mode); (*2), (*4)	ms							s than 3						
	1							o unan o						
1.2 CONSTANT CURRENT MODE (CC)		r					500	075	004	405	- 0.1			
1. Max. Line Reg. (0.1% - Ior ≥ 333A; 0.050% - Ior < 333A)	mA						500	375	334	125	94	75	60	
2. Max. Load Reg (0.1% - lor ≥ 333A; 0.075% - 25A ≤ lor < 333A; 0.2% - lor < 25A); (*3), (*5)	mA						500	375	334	188	141	113	90	
333A; 0.2% - 10f < 25A); (-3), (-5) 3. Ripple, rms (5Hz~1MHz), CC mode	mA						350	200	150	100	100	100	50	
4. Temperature Stability		<u> </u>									Temperatur			-
5. Temperature Coefficient	ppm/°C	·	<u> </u>	f lo(rated)			and marin	30 (0013				-/		-
	1 66114 0	(<u>+</u>	5.50 /0 0		,, 🤍									
		0 100												_
	%	0~100												_
2. OCP type		Constan		Manual										_
3. Foldback Protection (FOLD)											n, user-sele	ectable		_
I. Foldback Response Time	s						= 0.25); Se							
5. OVP type		·			reset by	AC On/C	ff recycle,	OUT but	ton, Rem	ote Analo	g or Digita	l communio	cation	
6. OVP Programming Accuracy	%		Vo(rated)		forVer		00/ to 10	-0/ of Vo/	rotod) C	001/ 1/2	- 15001/			
7. OVP Trip Point	V	Shall always be greater than 105% of Vo(setting); Default = 105% of Vo(rated)												
3. OVP Response Time	ms	Itess than 10 (for Output to begin to drop) for Vor ≤ 600V Less than 2.0 (for Output to begin to drop) for 600V < Vor ≤ 1500V												
9. Max. OVP Reset Time	s	<u> </u>		f switch tu										
10. Over-temperature Protection (OTP)		<u>. </u>		<u> </u>			<u> </u>				nlatched: A	uto)		
11. Phase-Loss Protection		Yes, pov	er supply	/ shutdow	n (Latche	d: Safe-S	Start / Unla	atched: Au	uto-Resta	ırt)				
1.4 REMOTE ANALOG CONTROLS & SIGNALS														
I. Vout Voltage Programming	0~100%,	0 ~ 5V or	0 ~ 10V, ι	user-selec	table., Ac	curacy &	Linearity:	±1% of V	o(rated)					
2. lout Voltage Programming	0~100%,	0 ~ 5V or	0 ~ 10V, ι	user-selec	table, Acc	uracy &	Linearity:	± 1% of lo	o(rated)					
3. Vout Resistor Programming	0~100%,	0 ~ 5/10kc	hm full-s	cale, user	-selectabl	e, Accura	acy & Line	arity: ± 1°	% of Vo(ra	ated)				
4. lout Resistor Programming	0~100%,	0 ~ 5/10kc	hm full-s	cale, user	-selectabl	e, Accura	acy & Line	arity: ± 19	% of lo(ra	ated)				
5. Shut-Off (SO) Control (rear panel)	By Voltag	e: 0.6V = I	DIS, 2-15	V = ENA ((default) o	r Dry Co	ntact: Ope	n = ENA	Short =	DIS (user	-selectable	e logic)		
6. Output Current Monitor	0 ~ 5V or	0 ~ 10V, A	ccuracy:	± 1% of lo	o(rated), u	iser-sele	ctable							
7. Output Voltage Monitor	0 ~ 5V or	0 ~ 10V, A	ccuracy:	± 1% of V	o(rated),	user-sele	ctable							
B. Power Supply OK (PS_OK) Signal	Yes. TTL	High = OK	, 0V = Fa	il (500ohr	n series ir	npedanc	e)							İ
9. CV/CC Signal								0 ~ 0.4V	, Max sir	nk current	= 10mA			1
10. Enable/Disable		ict; Open =												1
11. Remote/Local Selection	Selects F	lemote or l	_ocal ope	ration by	voltage: 0	~ 0.6V =	Local / 2	- 15V = F	Remote					
	1									= On (Ma	ax sink curi	rent = 10m	A)	
12. Remote/Local Signal								/		,				
•														
1.5 FRONT PANEL					naadaxa (COADC	and FIN			atable)				
1.5 FRONT PANEL		manual a		•				-		ctable)				
1.5 FRONT PANEL	OVP/UVL	. manual a	djust by \	OLTAGE	Adjust en	coder, Fi	ont Panel	Lock/Unl		ctable)				
1.5 FRONT PANEL	OVP/UVL Address	. manual a selection b	djust by \ y VOLTAC	/OLTAGE GE Adjust	Adjust en encoder.	coder, Fi # of Add	ont Panel resses = 3	Lock/Unl	ock	,				
1.5 FRONT PANEL	OVP/UVL Address s AC ON/O	manual a selection b	djust by \ y VOLTAC t On/Off, I	/OLTAGE GE Adjust Restart M	Adjust en encoder. odes (Aut	coder, Fi # of Add o/Safe),	ont Panel resses = 3 Foldback	Lock/Unl 1 Control (C	ock CV to CC)	,	ocal			
1.5 FRONT PANEL	OVP/UVL Address s AC ON/O RS-232/F	. manual a selection b FF, Outpur RS-485, LA	djust by \ y VOLTA(t On/Off, I N, IEEE	OLTAGE GE Adjust Restart M (IEMD) ar	Adjust en encoder. odes (Aut nd USB se	coder, Fi # of Add o/Safe), election b	ont Panel resses = 3 Foldback by rear par	Lock/Unl 1 Control (C nel DIP-sv	ock CV to CC) vitch), Go-to-L				
.5 FRONT PANEL	OVP/UVL Address AC ON/O RS-232/F Baud rate	manual a selection b FF, Outpu S-485, LA selection	djust by \ y VOLTAC t On/Off, I N, IEEE (RS-232/	/OLTAGE GE Adjust Restart M (IEMD) ar /RS-485 o	Adjust en encoder. odes (Aut nd USB se only): 1200	coder, Fi # of Add o/Safe), election b 0, 2400, 4	ont Panel resses = 3 Foldback by rear pai 1800, 960	Lock/Unl 1 Control (C nel DIP-sv 0 and 19,3	ock CV to CC) vitch 200 (by C), Go-to-L Current Ad	ljust encod	ler)		
I.5 FRONT PANEL	OVP/UVL Address s AC ON/O RS-232/F Baud rate Advanced	manual a selection b FF, Outpur S-485, LA selection d Parallel M	djust by \ y VOLTAO t On/Off, I N, IEEE (RS-232/ /aster/Sla	/OLTAGE GE Adjust Restart M (IEMD) ar /RS-485 o ave: Hx =	Adjust en encoder. odes (Aut nd USB se only): 1200 Master ur	coder, Fi # of Add o/Safe), election b 0, 2400, 4 nit, where	ont Panel resses = 3 Foldback by rear pai 1800, 960	Lock/Unl 1 Control (C nel DIP-sv 0 and 19,3	ock CV to CC) vitch 200 (by C), Go-to-L Current Ad	ljust encod	ler)		
12. Remote/Local Signal 1.5 FRONT PANEL 1.Control Functions 2.Display	OVP/UVL Address s AC ON/O RS-232/F Baud rate Advanced Voltage: 4	manual a selection b FF, Outpur S-485, LA selection d Parallel M d digits, Ac	djust by \ y VOLTA(t On/Off, I N, IEEE (RS-232/ Master/Sla curacy: ±	OLTAGE GE Adjust Restart M (IEMD) ar (RS-485 o ave: Hx = 0.5% of \	Adjust en encoder. odes (Aut nd USB se only): 1200 <u>Master un</u> /o(rated) =	coder, Fi # of Add o/Safe), election b 0, 2400, 4 hit, where ±1 count	ont Panel resses = 3 Foldback by rear pai 1800, 960	Lock/Unl 1 Control (C nel DIP-sv 0 and 19,3	ock CV to CC) vitch 200 (by C), Go-to-L Current Ad	ljust encod	ler)		
I.5 FRONT PANEL	OVP/UVL Address s AC ON/O RS-232/F Baud rate Advanced Voltage: 4 Current: 4	manual a selection b FF, Outpu S-485, LA selection d Parallel N d digits, Ac d digits, Ac	djust by \ y VOLTAQ t On/Off, I N, IEEE (RS-232/ Master/Sla curacy: ± curacy: ±	OLTAGE GE Adjust Restart M (IEMD) ar (RS-485 o ave: Hx = 0.5% of V 0.5% of V	Adjust en encoder. odes (Aut nd USB se only): 1200 <u>Master un</u> /o(rated) = /o(rated) =	coder, Fi # of Add o/Safe), election b 0, 2400, 4 hit, where ±1 count	ont Panel resses = 3 Foldback by rear par 4800, 9600 a x = # of \$	Lock/Unl 11 Control (C nel DIP-sv 0 and 19,1 Slave unit	ock CV to CC) vitch 200 (by C s (0 to 4);), Go-to-L Current Ad ; S = Slav	ljust encod	ler)		
.S FRONT PANEL Control Functions	OVP/UVL Address s AC ON/O RS-232/F Baud rate Advanced Voltage: 2 Current: 4 VOLTAGE	manual a selection b FF, Outpur S-485, LA selection d Parallel M digits, Ac digits, Ac meter dis	djust by \ y VOLTAQ t On/Off, I N, IEEE (RS-232/ <u>Master/Sla</u> curacy: ± curacy: ± plays vol	/OLTAGE GE Adjust Restart M (IEMD) ar (RS-485 of ave: Hx = 0.5% of V 0.5% of V tage at po	Adjust en encoder. odes (Aut nd USB se only): 1200 <u>Master ur</u> /o(rated) = /o(rated) =	coder, Fi # of Add o/Safe), election b 0, 2400, 4 hit, where ±1 count ±1 count ly (Local	ont Panel resses = 3 Foldback by rear par 1800, 9600 x = # of S sense) or	Lock/Unl Control (C nel DIP-sv 0 and 19,3 Slave unit at load (I	ock CV to CC) vitch 200 (by C s (0 to 4); Remote s), Go-to-L Current Ad ; S = Slav	ljust encod	ler)		
.S FRONT PANEL Control Functions	OVP/UVL Address s AC ON/O RS-232/F Baud rate Advanced Voltage: 4 Voltage VOLTAGE Green LE	manual a selection b FF, Outpu S-485, LA selection d Parallel N d digits, Ac d digits, Ac	djust by \ y VOLTAQ t On/Off, I N, IEEE (RS-232/ <u>Master/Sla</u> curacy: ± curacy: ± curacy: ± plays vol /IEW, FO	/OLTAGE GE Adjust Restart M (IEMD) ar (RS-485 o ave: Hx = 0.5% of V 0.5% of V tage at po LD, REM	Adjust en encoder. odes (Aut nd USB se only): 1200 Master ur /o(rated) = /o(rated) = wer supp ./LOCAL,	coder, Fi # of Add o/Safe), election b 0, 2400, 4 hit, where ±1 count ±1 count ly (Local OUT ON	ont Panel resses = 3 Foldback by rear par (800, 960) e x = # of \$ sense) or //OFF, CV/	Lock/Unl Control (C nel DIP-sv 0 and 19,3 Slave unit at load (I	ock CV to CC) vitch 200 (by C s (0 to 4); Remote s), Go-to-L Current Ad ; S = Slav	ljust encod	ler)		
2. Display	OVP/UVL Address s AC ON/O RS-232/F Baud rate Advanced Voltage: 4 Voltage VOLTAGE Green LE	manual a selection b FF, Outpur S-485, LA selection Parallel M digits, Ac digits, Ac digits, Ac meter dis D's: PREV	djust by \ y VOLTAQ t On/Off, I N, IEEE (RS-232/ <u>Master/Sla</u> curacy: ± curacy: ± curacy: ± plays vol /IEW, FO	/OLTAGE GE Adjust Restart M (IEMD) ar (RS-485 o ave: Hx = 0.5% of V 0.5% of V tage at po LD, REM	Adjust en encoder. odes (Aut nd USB se only): 1200 Master ur /o(rated) = /o(rated) = wer supp ./LOCAL,	coder, Fi # of Add o/Safe), election b 0, 2400, 4 hit, where ±1 count ±1 count ly (Local OUT ON	ont Panel resses = 3 Foldback by rear par (800, 960) (x = # of \$ sense) or (OFF, CV)	Lock/Unl Control (C nel DIP-sv 0 and 19,3 Slave unit at load (I	ock CV to CC) vitch 200 (by C s (0 to 4); Remote s), Go-to-L Current Ad ; S = Slav	ljust encod	ler)		
1.5 FRONT PANEL 1.Control Functions 2.Display 3.Indications 1.6 DIGITAL PROGRAMMING & READBACK	OVP/UVL Address s AC ON/O RS-232/F Baud rate Advanced Voltage: 4 Current: 4 VOLTAGE Green LE Red LED	manual a selection b FF, Outpur S-485, LA selection d Parallel M digits, Ac digits, Ac digits, Ac meter dis D's: PREV ALARM (djust by \ y VOLTAQ t On/Off, I N, IEEE (RS-232/ <u>Master/Sla</u> curacy: ± curacy: ± curacy: ± plays vol /IEW, FO	/OLTAGE GE Adjust Restart M (IEMD) ar (RS-485 o ave: Hx = 0.5% of V 0.5% of V tage at po LD, REM	Adjust en encoder. odes (Aut nd USB se only): 1200 Master ur /o(rated) = /o(rated) = wer supp ./LOCAL,	coder, Fi # of Add o/Safe), election b 0, 2400, 4 hit, where ±1 count ±1 count ly (Local OUT ON	ont Panel resses = 3 Foldback by rear par (800, 960) (x = # of \$ sense) or (OFF, CV)	Lock/Unl Control (C nel DIP-sv 0 and 19,3 Slave unit at load (I	ock CV to CC) vitch 200 (by C s (0 to 4); Remote s), Go-to-L Current Ad ; S = Slav	ljust encod	ler)		
	OVP/UVL Address s AC ON/O RS-232/F Baud rate Advanced Voltage: 4 Current: 4 VOLTAGE Green LE Red LED	manual a selection b FF, Outpu S-485, LA e selection d Parallel N d digits, Ac d digits, Ac d digits, Ac c meter dis D's: PREV ALARM (Vo(rated)	djust by \ y VOLTAC t On/Off, I.N, IEEE (RS-232/ Master/Sla curacy: ± plays vol 'IEW, FO OVP, OTI	/OLTAGE GE Adjust Restart M (IEMD) ar (RS-485 o ave: Hx = 0.5% of V 0.5% of V tage at po LD, REM , FOLD, A	Adjust en encoder. odes (Aut nd USB se only): 1200 Master ur /o(rated) = /o(rated) = /o(rated) = /o(rated) = /o(rated) = /o(rated) = /o(rated) =	coder, Fi # of Add o/Safe), election b 0, 2400, 4 €1 count €1 count ly (Local OUT ON ENA, SO	ont Panel resses = 3 Foldback (yr rear pan l800, 960(x = # of \$ sense) or /OFF, CV,	Lock/Unl 11 Control (C nel DIP-sv 0 and 19, Slave unit at load (f (CC, FINE	ock 2V to CC) witch 200 (by C 200 (by C s (0 to 4); Remote s), Go-to-L Current Ad ; S = Slav	ljust encod	ler)		
	OVP/UVL Address s AC ON/O RS-232/P Baud rate Advanced Voltage: 4 Current: 4 VOLTAGE Green LE Red LED ± 0.5% of ± 0.5% of	manual a selection b FF, Outpur S-485, LA s selection d Parallel N d digits, Ac d digits, Ac d digits, Ac d digits, Ac meter dis D's: PREV : ALARM (f Vo(rated) f lo(rated)	djust by \ y VOLTAC t On/Off, I.N, IEEE (RS-232/ Master/Sla curacy: ± plays vol 'IEW, FO OVP, OTI	/OLTAGE GE Adjust Restart M (IEMD) ar (RS-485 o ave: Hx = 0.5% of V 0.5% of V tage at po LD, REM , FOLD, A	Adjust en encoder. odes (Aut nd USB se only): 1200 Master ur /o(rated) = /o(rated) = /o(rated) = /o(rated) = /o(rated) = /o(rated) = /o(rated) =	coder, Fi # of Add o/Safe), election b 0, 2400, 4 €1 count €1 count ly (Local OUT ON ENA, SO	ont Panel resses = 3 Foldback (yr rear pan l800, 960(x = # of \$ sense) or /OFF, CV,	Lock/Unl 11 Control (C nel DIP-sv 0 and 19, Slave unit at load (f (CC, FINE	ock 2V to CC) witch 200 (by C 200 (by C s (0 to 4); Remote s), Go-to-L Current Ad ; S = Slav	ljust encod	ler)		
S FRONT PANEL Sontrol Functions Display Indications digital PROGRAMMING & READBACK Vout Programming Accuracy lout Programming Accuracy Sout Programming Accuracy Sout Programming Resolution	OVP/UVL Address ± AC ON/O RS-232/F Baud rate Advancet Voltage: 4 Current: 4 VOLTAGE Green LE ± 0.5% of ± 0.5% of 0.02% of	manual a selection b FF, Outpur S-485, LA s selection d Parallel N 4 digits, Ac 4 digits, Ac 5 meter dis D's: PREV :.ALARM (Vo(rated) Vo(rated)	djust by \ y VOLTAC t On/Off, I.N, IEEE (RS-232/ Master/Sla curacy: ± plays vol 'IEW, FO OVP, OTI	/OLTAGE GE Adjust Restart M (IEMD) ar (RS-485 o ave: Hx = 0.5% of V 0.5% of V tage at po LD, REM , FOLD, A	Adjust en encoder. odes (Aut nd USB se only): 1200 Master ur /o(rated) = /o(rated) = /o(rated) = /o(rated) = /o(rated) = /o(rated) = /o(rated) =	coder, Fi # of Add o/Safe), election b 0, 2400, 4 €1 count €1 count ly (Local OUT ON ENA, SO	ont Panel resses = 3 Foldback (yr rear pan l800, 960(x = # of \$ sense) or /OFF, CV,	Lock/Unl 11 Control (C nel DIP-sv 0 and 19, Slave unit at load (f (CC, FINE	ock 2V to CC) witch 200 (by C 200 (by C s (0 to 4); Remote s), Go-to-L Current Ad ; S = Slav	ljust encod	ler)		
I.5 FRONT PANEL I.Control Functions I.Control Functions I.Control Functions I.Control Functions I.Control Functions I.Control Programming Accuracy I. Vout Programming Accuracy I. Vout Programming Resolution I. Vout Programming Resolution I. Lout P	OVP/UVL Address s AC ON/O RS-232/F Baud rate Advanced Voltage: 4 Current: 4 VOLTAGE Green LE Red LED ± 0.5% of 0.02% of 0.04% of	manual a selection b FF, Outpur RS-485, LA e selection d Parallel N d digits, Ac d di d digits, Ac d digits, Ac d digits, Ac d digits,	djust by \ y VOLTAC t On/Off, I N, IEEE (RS-232) Aaster/Sla curacy: ± plays vol 'IEW, FO OVP, OTF	VOLTAGE GE Adjust Restart M (IEMD) ar (RS-485 o ave: Hx = 0.5% of V tage at po LD, REM P, FOLD, /	Adjust en encoder. odes (Aut nd USB sc only): 1200 Master ur /o(rated) = /o(rated) = /o(rated) = /o(rated) = /o(rated) = //LOCAL, AC FAIL, E	coder, Fi # of Add o/Safe), election b 0, 2400, 4 €1 count €1 count ly (Local OUT ON ENA, SO	ont Panel resses = 3 Foldback (yr rear pan l800, 960(x = # of \$ sense) or /OFF, CV,	Lock/Unl 11 Control (C nel DIP-sv 0 and 19, Slave unit at load (f (CC, FINE	ock 2V to CC) witch 200 (by C 200 (by C s (0 to 4); Remote s), Go-to-L Current Ad ; S = Slav	ljust encod	ler)		
	OVP/UVL Address : AC ON/O RS-232/F Baud rate Advanced Voltage: Current: VOLTAGE Green LE Red LED ± 0.5% of ± 0.5% of ± 0.5% of ± 0.02% of 0.04% of ± (0.1% c	manual a selection b FF, Outpu SS-485, LA s selection d Parallel N d digits, Ac d d	djust by \ y VOLTAQ t On/Off, I. N, IEEE (IRS-232/ Master/Sla curacy: ± curacy: ± curacy: ± plays vol 7IEW, FO OVP, OTF	VOLTAGE GE Adjust Restart M (IEMD) ar (RS-485 o ave: Hx = 0.5% of V 0.5% of V tage at po LD, REM P, FOLD, A with lo < 1 of Vo(rate	Adjust en encoder. odes (Aut nd USB sc unly): 1200 Master ur /o(rated) = /o(rated) = /o(rated) = /o(rated) = 87.5A; ± 0 87.5A; ± 0	coder, Fi # of Add o/Safe), election b 0, 2400, 4 €1 count €1 count ly (Local OUT ON ENA, SO	ont Panel resses = 3 Foldback (yr rear pan l800, 960(x = # of \$ sense) or /OFF, CV,	Lock/Unl 11 Control (C nel DIP-sv 0 and 19, Slave unit at load (f (CC, FINE	ock 2V to CC) witch 200 (by C 200 (by C s (0 to 4); Remote s), Go-to-L Current Ad ; S = Slav	ljust encod	ler)		
S FRONT PANEL S. Control Functions Display Display Display Out Programming Accuracy Lout Programming Accuracy S. Vout Programming Resolution Lout Programming Resolution S. Vout Programming Resolution S. Vout Readback Accuracy S. Lout Readback Accuracy S. Lout Readback Accuracy	OVP/UVL Address : AC ON/O RS-232/F Baud ratt Advanced Voltage: 4 Current: 4 VOLTAGE Green LE # 0.5% of ± 0.5% of ± 0.5% of ± 0.02% of 0.02% of 0.04% of ± (0.1% c	manual a selection b FF, Outpu SS-485, LA selection d Parallel N digits, Act digits, Act d	djust by \ y VOLTAQ t On/Off, I. N, IEEE (IRS-232/ Master/Sla curacy: ± curacy: ± curacy: ± plays vol 7IEW, FO OVP, OTF	VOLTAGE GE Adjust Restart M (IEMD) ar (RS-485 o ave: Hx = 0.5% of V 0.5% of V tage at po LD, REM P, FOLD, A with Io < 1 of Vo(rate	Adjust en encoder. odes (Aut nd USB sc unly): 1200 Master ur /o(rated) = /o(rated) = /o(rated) = wer supp /LOCAL, AC FAIL, E 87.5A; ± 0	coder, Fi # of Add o/Safe), election b 0, 2400, 4 €1 count €1 count ly (Local OUT ON ENA, SO	ont Panel resses = 3 Foldback (yr rear pan l800, 960(x = # of \$ sense) or /OFF, CV,	Lock/Unl 11 Control (C nel DIP-sv 0 and 19, Slave unit at load (f (CC, FINE	ock 2V to CC) witch 200 (by C 200 (by C s (0 to 4); Remote s), Go-to-L Current Ad ; S = Slav	ljust encod	ler)		
I.5 FRONT PANEL I.Control Functions I.Control Function I.Cont Programming Accuracy I.Cont Programming Resolution I.Cont Readback Accuracy I.Cont Readback Resolution I.Cont Re	OVP/UVL Address s AC ON/O RS-232/F Baud rate Advancer Voltage: 4 Current: 4 VOLTAGE Green LE # 0.5% of 0.02% of 0.02% of 0.02% of 0.02% of 0.02% of 0.02% of	manual a selection b FF, Outpur SS-485, LA s selection b d digits, LA d digits, Ac d digits, Ac	djust by \ y VOLTAQ t On/Off, I. N, IEEE (IRS-232/ Master/Sla curacy: ± curacy: ± curacy: ± plays vol 7IEW, FO OVP, OTF	VOLTAGE GE Adjust Restart M (IEMD) ar (RS-485 o ave: Hx = 0.5% of V 0.5% of V tage at po LD, REM P, FOLD, A with Io < 1 of Vo(rate	Adjust en encoder. odes (Aut nd USB sc unly): 1200 Master ur /o(rated) = /o(rated) = /o(rated) = wer supp /LOCAL, AC FAIL, E 87.5A; ± 0	coder, Fi # of Add o/Safe), election b 0, 2400, 4 €1 count €1 count ly (Local OUT ON ENA, SO	ont Panel resses = 3 Foldback (yr rear pan l800, 960(x = # of \$ sense) or /OFF, CV,	Lock/Unl 11 Control (C nel DIP-sv 0 and 19, Slave unit at load (f (CC, FINE	ock 2V to CC) witch 200 (by C 200 (by C s (0 to 4); Remote s), Go-to-L Current Ad ; S = Slav	ljust encod	ler)		
1.5 FRONT PANEL 1.Control Functions 2.Display 3.Indications 1.6 DIGITAL PROGRAMMING & READBACK	OVP/UVL Address ± AC ON/O RS-232/F Baud rate Advance Voltage: 4 Current: 4 VOLTAGE Green LE ± 0.5% of 0.02% of	manual a selection b FF, Outpur SS-485, LA s selection b d digits, LA d digits, Ac d digits, Ac	djust by \ y VOLTAC t On/Off, I. N, IEEE (RS-232) Aaster/SIL curacy: ± curacy: ± curacy: ± plays vol 'IEW, FO OVP, OTf for units v l) + 0.2%) + 0.4%	VOLTAGE GE Adjust Restart M (IEMD) ar RS-485 o ave: Hx = 0.5% of \ 0.5% of \	Adjust en encoder. odes (Aut nd USB se innly): 1200 Master ur /o(rated) = /o(rated) = /o(r	coder, Fr # of Add o/Safe), election t 0, 2400, 4 it, where t 1 count t 1 count ly (Local OUT ON ENA, SO	ont Panel resses = 3 Foldback k yr rear pan (800, 9600 x = # of \$ sense) or //OFF, CV.)	Lock/Uni 11 Control (C nel DIP-sv 0 and 19,3 Slave unit at load (I (CC, FINE r lo ≥187.	ock 2V to CC) vitch 200 (by C 200 (by C 3 (0 to 4); Remote s 5 5 4), Go-to-L Current Ad ; S = Slav	ljust encod	ler)		

*1. Ripple and Noise at Vo(rated) and rated Load, Ta = 25C and nominal AC input, per EIJ R9002A.
*2. Time for the Output voltage to recover within 2% of rating for a load current change of 50~100% or 100-50% of rated Output.
*3. From 20% - 100% for models with lor < 25A.
*4. Operating with a load that continuously pulses the current (or voltage) can reduce the operating life of the Power Supply. Please contact TDK-Lambda Sales/Technical Support to discuss the previous in the full.

*5. CV Mode: from 5% to 100% of Irated (over 5% to 100% of Prated); CC Mode: from 20% to 100% of Vrated (over 20% to 100% of Prated).
 All specifications subject to change without notice.

Genesvs[™] 3U 15kW Specifications

1.0 MODEL	GEN	150-100			300-50	400-37.5	500-30		800-18.8		1250-12	1500-10	X
1.Rated Output Voltage	VDC	150	200	250	300	400	500	600	800	1000	1250	1500	X
2.Rated Output Current	ADC	100	75	60	50	37.5	30	25	18.8	15	12	10	X
3.Rated Output Power	kW	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.04	15.0	15.0	15.0	X
4.Efficiency (min) at low AC line, 100% Rated Load	%				88					ç	93.5		X
1.1 CONSTANT VOLTAGE MODE (CV)					Cor	tact Factor	y for othe	r models	i j				X
1. Max. Line Reg (0.1% - Vor ≤ 30V; 0.01% - 30V < Vor ≤ 600V; 0.05% - 600V < Vor ≤ 1500V)	mV	15	20	25	30	40	50	60	400	500	625	750	x
2. Max. Load Reg (0.1% - Vor ≤ 30V; 0.02% - 30V < Vor ≤ 600V; 0.1% - 600V < Vor ≤ 1500V); (*5)	mV	30	40	50	60	80	100	120	800	1000	1250	1500	x
3. Output Ripple, rms (5Hz~1MHz), CV mode; (*1)	mV	25	35	35	60	60	60	60	80	100	120	140	X
4. Output Noise, p-p (20MHz), CV mode; (*1)	mV										X		
5.Remote Sense Compensation / Wire	V												
6. Temperature Stability											×		
7. Temperature Coefficient	ppm / °C	200 (0.0	02% of V	o(rated))									<u> </u>
8. Up-Prog. Response Time, 0~Vomax, full-load	ms				100				ļ	1			
9. Up-Prog. Response Time, 0~Vomax, no load	ms												
10. Transient Response Time (CV mode); (*2), (*4)	ms	IIIS LESS IIIdii 5 LESS IIIdii 1									X		
1.2 CONSTANT CURRENT MODE (CC)	·												
1. Max. Line Reg (0.1% - Ior ≥ 333A; 0.050% - Ior < 333A)	mA	50	38	30	25	19	15	13	28	23	18	15	X
2. Max. Load Reg (0.1% - lor ≥ 333A; 0.075% - 25A ≤ lor < 333A; 0.2% - lor < 25A); (*3), (*5)	mA	75	57	45	38	28	23	19	38	30	24	20	×
3. Output Ripple, rms (5Hz~1MHz), CC mode	mA	50	20	20	20	10	10	10	15	10	6	4	
4. Temperature Stability		± 0.05%	6 of lo(ra	ted) over	8 hours a	fter 30 mir	ute warm	up (con	stant Line,	Load & Te	mperature)		X
5. Temperature Coefficient	ppm / °C	± 300 (:	± 0.03%	of lo(rated	d)) / °C								>
1.3 PROTECTIVE FUNCTIONS													
1. OCP	%	0 ~ 100								_			
2. OCP type		Consta	nt current	t									
3. Foldback Protection		Output	shut dow	n; Manua	I reset by	front pane	el OUT bu	tton or D	Igital comn	nunication,	user-select	table	>
4. Foldback Response Time	s	Less the	an 1 (Mir	n = 0.25 /	Max = 2	5 / Default =	= 0.25); S	ettable vi	a "FBD" co	mmand			
5. OVP type		Inverter	shut-dov	wn; Manu	al reset b	y On/Off re	ecycle, Ol	JT button	, Remote A	Analog or D	Digital comn	nunication	
6. OVP Programming Accuracy	%	± 5% of	f Vo(rated	I)									
7. OVP Trip Point	v								o(rated) - 60 % of Vo(rate		<u><</u> 1500V		>
8. OVP response time	ms	Less the	an 10 (fo	r Output t	o begin t	o drop) for '	Vor ≤ 600	V		,			>
9. Max. OVP reset time	s			off switch	-		0001 < 1						×
10. Over temperature Protection		<u> </u>				avreeds sa	fe onerati	na levels	(Latched:	Safe / Unla	atched: Auto	<u>)</u>	1 x
11. Phase Loss Protection								-	uto-Restar			,	×
1.4 REMOTE ANALOG CONTROLS & SIGNALS		, [,						7			
1. Vout Voltage Programming	0100%	0 - 5V or	0 - 101/	usor-solo	ctable A	ccuracy &	l inearity:	+ 1% of	Vo(rated)				X
2. lout Voltage Programming						ccuracy &							1 x
3. Vout resistor programming									6 of Vo(rate	d)			X
4. lout Resistor Programming									of lo(rated				
5. Shut-Off (SO) Control (rear panel)	By Voltag	e: 0.6V =	DIS, 2-1	5V = ENA	(default)	or Dry Co	ntact: Op	en = ENA	A, Short-DI	S (user-se	lectable logi	ic)	X
6. Output Current Monitor	0 ~ 5V or	0 ~ 10V, /	Accuracy	: ± 1% of	lo(rated)	, user-sele	ctable						X
7. Output Voltage Monitor), user-sele							X
8. Power Supply OK (PS_OK) Signal						impedanc							<u> </u>
9. CV/CC Signal	÷								/), Max sinl		10mA		<u>></u>
10. Enable/Disable									contacts =	6V			
11. Remote/Local Selection						0 ~ 0.6V =				On (May	ainly avanage	+ 10mm A)	
12. Remote/Local Signal	Signals o	perating r	node; Op	en collec	lor: Loca	= Open (N	lax voltag	je = 30 v), Remote :	= On (iviax	sink curren	l = 10 mA))
1.5 FRONT PANEL	,												
1.Control Functions				•				-	ment selec	table)			
						encoder, Fr			llock				
						r. # of Add							
						selection b			(CV to CC), G0-10-L0	JCal		\vdash
				. ,							Adjust enco	dor)	\vdash
					• ·						•		\vdash
2.Display									5				
2.Diopidy									ز ا				
		-					sense) o	r at load	(Remote se	ense)			×
3.Indications						L, OUT ON , ENA, SO		/CC, FIN	E				×
1.6 DIGITAL PROGRAMMING & READBACK			<u>, , , , , , , , , , , , , , , , , , , </u>	,		,							·
1. Vout Programming Accuracy	± 0.5% of	Vo(rated)										
2. lout Programming Accuracy				with lo <	187.5A: -	-/-0.7% of I	o(rated) f	or lo ≥18	7.5A				Ś
3. Vout Programming Resolution	0.02% of												×
4. lout Programming Resolution	0.04% of)
5. Vout Readback Accuracy	± (0.1% of Vo(actual) + 0.2% of Vo(rated)) X												
6. lout Readback Accuracy	± (0.1% c			of lo(rat	ed))								
7. Vout Readback Resolution	0.02% of												×
8. lout Readback Resolution	0.02% of	lo(rated)											l x

8. lout Readback Resolution 0.02% of lo(rated) 9. OV Response Time 20ms maximum (between Vout exceeding OVP Limit and supply inhibit turning On) 10. Other Functions Set OVP/UVL limits, Set Local/Remote, Operating parameters and Status, Get Identity

*1. Ripple and Noise at Vo(rated) and rated Load, Ta = 25C and nominal AC input, per EIJ R9002A.
*2. Time for the Output voltage to recover within 2% of rating for a load current change of 50~100% or 100-50% of rated Output.
*3. From 20% - 100% for models with lor < 25A.

*4. Operating with a load that continuously pulses the current (or voltage) can reduce the operating life of the Power Supply. Please contact TDK-Lambda Sales/Technical Support to discuss the application in detail. *5. CV Mode: from 5% to 100% of Irated (over 5% to 100% of Prated); CC Mode: from 20% to 100% of Vrated (over 20% to 100% of Prated).

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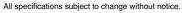
All specifications subject to change without notice.

General Specifications, Genesys[™] 3U 10kW/15kW

2.1 INPUT CHARACTERISTICS		
1. Input Voltage / Frequency (range)		208VAC (180-253), 400VAC (342-440 for Vout ≥ 30V; 360-440 for Vout < 30V), 480VAC (432-528); 47-63Hz (all)
2. No. of phases		3-Phase (Wye or Delta) 4 wire total (3 phases and 1 Protective Earth (PE) ground)
3. Dropout Voltage	V	180 / (342/360) / 432
4. Input Current (180VAC/342VAC or 360VAC/432VAC)	Arms	10kW - 45/23/20 (Vout \leq 600V); 40/23/20 (800V \leq Vout \leq 1500V) - at full rated Output power
· · · · · · · · · · · · · · · · · · ·		15kW - 64/32/27 (Vout \leq 600V); 55/32/27 (800V \leq Vout \leq 1500V) - at full rated Output power
5. Inrush Current	A	Not to exceed full rated Input current (see 2.1.4 (Input Current))
6. Power Factor, passive (typical)		Vout < 600V: 0.88 (passive), 10kW/15kW (208VAC, 400VAC, 480VAC) Vout > 600V: 0.90/0.93 - 10kW/15kW (208VAC), 0.89/0.92 - 10kW/15kW (400VAC), 0.84/0.88 - 10kW/15kW (480VAC)
7. Leakage Current	mA	3.5 maximum (EN60950)
8. Input Protection		Circuit breaker: 208VAC, (Vout ≤ 30V); Line fuse: 208VAC (Vout ≥ 30V) and 400VAC/480VAC (all models)
10. Phase Imbalance	%	\leq 5% on three-phase Input
	/0	
2.2 POWER SUPPLY CONFIGURATION		
1. Parallel Operation; (*6)	current of	(4) identical units may be connected in Master/Slave Mode with Single-Wire/Two-Wire connection. In "Advanced-Parallel", the Master unit multiplied by number of units connected in parallel is available via digital interface and displayed on the front Jay of the Master unit. Remote Analog current monitor of Master unit is scaled to the Output current of the Master unit (only)
2. Series Operation (*6)	Possible (with external diodes); Up to two identical units with total Output voltage not to exceed ± 600V from Chassis ground (for Vor ≤ 600V exceed ± 1500V from Chassis ground (for 600V < Vor ≤ 1500V)
2.3 ENVIRONMENTAL CONDITIONS		
1. Operating Temperature	0 to +50°	C, 100% load
2. Storage Temperature	-20 to +70	
3. Operating Humidity		RH (non-condensing)
4. Storage Humidity		RH (non-condensing)
5. Vibration & Shock		169, Standard Practice for Performance Testing of Shipping Containers and Systems, Shipping Unit: Single Package
- · · ·	Assuranc	Hors, standard Practice for Performance resum of Simpling Comainers and Systems, Simpling Ont. Single Package e Level: Level II; Acceptance Criteria: Criterion 1 - No product damage Criterion 2 - Packaging is intact, Distribution Cycle: 12 - ity) and motor freight (local), unitized is used.
6. Altitude		: +50°C up to 7500ft. (2500m), +45°C from 7501 to 10,000ft (2501m - 3000m), Non-Operating 40,000ft (12,000m)
7. Audible Noise		lo(rated) (measured 1m from front panel) for Vout < 30V; 65dBA at lo(rated) (measured 1m from front panel) for Vout \geq 30V
2.4 EMC		
1. 208VAC Input (all models)	CE Mark	
1. ESD		4-2 (IEC 801-2): Air-discharge ± 8kV , Contact-discharge ± 4kV
2. Fast Transients		-4-2 (IEC 001-2). All-uischalge ± 0kV , Contact-uischalge ± 4kV
3. Surge Immunity		-4-5 (IEC 1000-4-5)
4. Conducted Immunity		-4-6 (IEC 1000-4-6)
5. Radiated Immunity		-4-3 (IEC 1000-4-3)
	EN61000	
6. Power Frequency Magnetic Field 7. Conducted Emissions		A, FCC part 15J-A
8. Radiated Emissions		A, FCC part 15J-A
2. 400VAC (all models) /480VAC Input (Vout > 30V)	CE Mark	A, FOO PAIL 150-A
1. ESD		4-2 (IEC 801-2): Air-discharge ± 8kV , Contact-discharge ± 4kV
2. Fast Transients		-4-4 (IEC 1000-4-3)
3. Surge Immunity		-4-5 (IEC 1000-4-5)
4. Conducted Immunity		4-6 (IEC 1000-4-6)
5. Radiated Immunity		-4 (IEC 1000-4-3)
6. Power Frequency Magnetic Field	EN61000	
7. Voltage Dips, Short Interruptions and Voltage Variations Immunity Test (400VAC Only)	IEC 6100	
8. Conducted Emissions	EN55011/	A, FCC part 15J-A
9. Radiated Emissions	EN55011/	A, FCC part 15J-A
2.5 SAFETY		
1.Applicable Standards		
	7.5V ≤ Vo 400V < Vo	0950-1, EN60950-1 recognized, CB Scheme, CE Mark (208VAC, 400VAC and 480VAC) ut ≤ 400V: Output is Hazardous; LAN/IEEE/USB/Isolated Analog are SELV but ≤ 600V: Output is Hazardous; LAN/IEEE/USB/Isolated Analog are ont SELV but ≤ 1500V: Output is Hazardous; LAN/IEEE/USB/Isolated Analog are SELV
	600V < Vo	Sul S 1500V. Output is hazardous, LAN/IEEE/05D/Isolated Allalog are SEEV
2. Withstand Voltage: (208VAC/400VAC/480VAC; for 60 seconds); (*7)	Vout < 80 Hazardous 80V ≤ Vou 2200VDC/2 300 < Vou 2200VDC/2 600 < Vou 2900VDC/2	W: Input - Ground: 2200VDC/2900VDC, Input-Hazardous Output: 2200VDC/3100VDC, Input - SELV: 2200VDC/2900VDC, Output - SELV: 900VDC/900VDC/900VDC, Hazardous Output - Ground: 900VDC/900VDC/900VDC. It ≤ 300V: Input - Ground: 2200VDC/2900VDC/2900VDC, Input-Hazardous Output: 2200VDC/3500VDC, Input - SELV: 900VDC/900VDC, 900VDC/2900VDC; Hazardous Output - SELV: 900VDC/900VDC, Input-Hazardous Output: 2200VDC/3500VDC/3500VDC, Input - SELV: 900VDC/900VDC, Hazardous Output: Ground: 900VDC/900VDC/900VDC, 900VDC/2900VDC; Hazardous Output: SELV: 900VDC/900VDC, Input-Hazardous Output: 300VDC/3900VDC/900VDC, 900VDC/2900VDC; Hazardous Output - SELV: 900VDC/900VDC, Input-Hazardous Output: 300VDC/3900VDC/900VDC, 900VDC/2900VDC; Hazardous Output - SELV: 900VDC/900VDC/900VDC, Input-Hazardous Output: 300VDC/3900VDC/900VDC, 900VDC/2900VDC; Hazardous Output - SELV: 900VDC/2900VDC, Input-Hazardous Output: 300VDC/3900VDC/900VDC, 900VDC/2900VDC, Hazardous Output - SELV: 900VDC/2900VDC, Input-Hazardous Output: 300VDC/3900VDC/900VDC 900VDC/2900VDC, Hazardous Output - SELV: 900VDC/2900VDC/2900VDC, Input-Hazardous Output: 400VDC/5040VDC/5040VDC, Input-SELV: 900VDC/2900VDC 900VDC/2900VDC, Hazardous Output - SELV: 900VDC/2500VDC/2500VDC/2500VDC, Hazardous Output: 4200VDC/2500VDC/2500VDC/2500VDC
(208VAC/400VAC)480VAC; for 60 seconds); (*7)	Vout < 80 Hazardous 80V ≤ Vou 2200VDC/2 300 < Vou 2200VDC/2 600 < Vou 2900VDC/2	W: Input - Ground: 2200VDC/2900VDC, Input-Hazardous Output: 2200VDC/3100VDC, Input - SELV: 2200VDC/2900VDC/2900VDC; Output - SELV: 900VDC/900VDC, Hazardous Output - Ground: 900VDC/900VDC/900VDC. It ≤ 300V: Input - Ground: 2200VDC/2900VDC/2900VDC, Input-Hazardous Output: 2200VDC/3500VDC/3500VDC, Input - SELV: 900VDC/900VDC, Hazardous Output: 200VDC/200VDC/3500VDC/900VDC. It ≤ 300V: Input - Ground: 2200VDC/2900VDC, Input-Hazardous Output: 300VDC/3500VDC/3500VDC, Input - SELV: 900VDC/900VDC, Hazardous Output: 300VDC/3900VDC, 900VDC. It ≤ 600V models: Input-Ground: 2200VDC/2900VDC/2900VDC, Hazardous Output: 3300VDC/3900VDC/3900VDC, Input-SELV: 900VDC/2900VDC, Input-Hazardous Output: 4Ground: 900VDC/900VDC/900VDC 900VDC/2900VDC, Hazardous Output - SELV: 900VDC/900VDC, Hazardous Output: 3300VDC/3900VDC/3900VDC, Input-SELV: 900VDC/2900VDC, Input-Hazardous Output: 4Ground: 900VDC/900VDC/900VDC It ≤ 1500V models: Input-Ground: 2200VDC/2900VDC, Input-Hazardous Output: 4Ground: 900VDC/900VDC/900VDC
(208VAC/400VAC/480VAC; for 60 seconds); (*7) 3.Insulation Resistance	Vout < 80 Hazardous 80V ≤ Vou 2200VDC/2 300 < Vou 2200VDC/2 600 < Vou 2900VDC/2	W: Input - Ground: 2200VDC/2900VDC, Input-Hazardous Output: 2200VDC/3100VDC, Input - SELV: 2200VDC/2900VDC, Output - SELV: 900VDC/900VDC/900VDC, Hazardous Output - Ground: 900VDC/900VDC/900VDC. It ≤ 300V: Input - Ground: 2200VDC/2900VDC, 2900VDC, Input-Hazardous Output: 2200VDC/3500VDC, Input - SELV: 900VDC/900VDC, 900VDC/2900VDC; Hazardous Output - SELV: 900VDC/900VDC, Hazardous Output: 200VDC/900VDC, 900VDC/900VDC, It ≤ 400V models: Input-Ground: 2200VDC/2900VDC, 100VDC, Hazardous Output: 300VDC/900VDC/900VDC, 900VDC/2900VDC; Hazardous Output - SELV: 900VDC/900VDC, Hazardous Output: 300VDC/900VDC/900VDC, It ≤ 600V models: Input-Ground: 2200VDC/2900VDC/2900VDC, Input-Hazardous Output: 300VDC/3900VDC, 900VDC, 900VDC/2900VDC, Hazardous Output - SELV: 900VDC/900VDC/900VDC, It ≤ 400V models: Input-Ground: 2200VDC/2900VDC/900VDC, 900VDC/2900VDC, Hazardous Output - SELV: 900VDC/2900VDC, It ≤ 100V models: Input-Ground: 2200VDC/2900VDC, 900VDC/2900VDC, Hazardous Output - SELV: 900VDC/2900VDC, Input-Hazardous Output - Ground: 200VDC/900VDC 900VDC/2900VDC, Hazardous Output - SELV: 900VDC/2900VDC, Input-Hazardous Output - Ground: 200VDC/2500VDC, 900VDC/2900VDC, Hazardous Output - SELV: 900VDC/2500VDC/2500VDC, Hazardous Output - SELV: 900VDC/2500VDC
(208VAC/400VAC) (*7) 3.Insulation Resistance 2.6 MECHANICAL CONSTRUCTION	Vout < 80 Hazardous 80V ≤ Voi 2200VDC/2 300 < Voi 2200VDC/2 200VDC/2 200VDC/2 20Megoh	W: Input - Ground: 2200VDC/2900VDC, Input-Hazardous Output: 2200VDC/3100VDC, Input - SELV: 2200VDC/2900VDC, Output - SELV: 900VDC/900VDC/900VDC, Hazardous Output - Ground: 900VDC/900VDC/900VDC. It ≤ 300V: Input - Ground: 2200VDC/2900VDC, 2900VDC, Input-Hazardous Output: 2200VDC/3500VDC, Input - SELV: 900VDC/900VDC, 900VDC/2900VDC; Hazardous Output - SELV: 900VDC/900VDC, Hazardous Output: 200VDC/900VDC, 900VDC/900VDC, It ≤ 400V models: Input-Ground: 2200VDC/2900VDC, 100VDC, Hazardous Output: 300VDC/900VDC/900VDC, 900VDC/2900VDC; Hazardous Output - SELV: 900VDC/900VDC, Hazardous Output: 300VDC/900VDC/900VDC, It ≤ 600V models: Input-Ground: 2200VDC/2900VDC/2900VDC, Input-Hazardous Output: 300VDC/3900VDC, 900VDC, 900VDC/2900VDC, Hazardous Output - SELV: 900VDC/900VDC/900VDC, It ≤ 400V models: Input-Ground: 2200VDC/2900VDC/900VDC, 900VDC/2900VDC, Hazardous Output - SELV: 900VDC/2900VDC, It ≤ 100V models: Input-Ground: 2200VDC/2900VDC, 900VDC/2900VDC, Hazardous Output - SELV: 900VDC/2900VDC, Input-Hazardous Output - Ground: 200VDC/900VDC 900VDC/2900VDC, Hazardous Output - SELV: 900VDC/2900VDC, Input-Hazardous Output - Ground: 200VDC/2500VDC, 900VDC/2900VDC, Hazardous Output - SELV: 900VDC/2500VDC/2500VDC, Hazardous Output - SELV: 900VDC/2500VDC
(208VAC/400VAC) (*7) 3.Insulation Resistance 2.6 MECHANICAL CONSTRUCTION 1. Cooling 2. Dimensions (W x H x D)	Vout < 80 Hazardous 80V ≤ Vol 2200VDC/2 300 < Vol	W: Input - Ground: 2200VDC/2900VDC, Input-Hazardous Output: 2200VDC/3100VDC, Input - SELV: 2200VDC/2900VDC; Output - SELV: 900VDC/900VDC/900VDC, Hazardous Output - Ground: 900VDC/900VDC. ut ≤ 300V: Input - Ground: 2200VDC/2900VDC; 900VDC, Uput-Hazardous Output: 2200VDC/3500VDC, S00VDC, Input - SELV: 900VDC/900VDC, Hazardous Output - Ground: 900VDC/3900VDC, 900VDC 900VDC/2900VDC; Hazardous Output - SELV: 900VDC/900VDC, Hazardous Output: 300VDC/3900VDC, 900VDC 900VDC/2900VDC; Hazardous Output - SELV: 900VDC/900VDC, Hazardous Output: 300VDC/3900VDC, 900VDC 900VDC/2900VDC; Hazardous Output - SELV: 900VDC/2900VDC, Hazardous Output: 300VDC/3900VDC, 900VDC 900VDC/2900VDC; Hazardous Output - SELV: 900VDC/2900VDC, Input-Hazardous Output: 300VDC/3900VDC, 900VDC 900VDC/2900VDC; Hazardous Output - SELV: 900VDC/2900VDC, Input-Hazardous Output: 300VDC/3900VDC/900VDC 900VDC/2900VDC; Hazardous Output - SELV: 900VDC/2900VDC, Input-Hazardous Output: 450VDC/5040VDC, Input-SELV: 900VDC/2900VDC/2900VDC/2900VDC, Hazardous Output: 450VDC/5040VDC, Input-SELV: 900VDC/2900VDC, Hazardous Output: 4500VDC/2900VDC, Hazardous Output: 900VDC/2500VDC, Hazardous Output: 900VDC/2500VDC, Hazardous Output: 900VDC/2500VDC, Ta = +25°C n nwith airflow from front to rear. Fan-speed control on models with Vout ≥ 30V ckable" top and bottom. Vents on side shall not be blocked. Chassis slides or suitable rear support required. EIA rack mounting 90m/ 16.9"; Height: 3U - 133mm / 5.22" 9mm / 16.9"; Height: 3U - 133mm / 52.2" 4mm / 22.2" for Vout ≤ 600V, 581mm / 22.9" for 800V ≤ Vout ≤ 1500V; excluding connectors, encoders, handles
(208VAC/400VAC) (*7) 3.Insulation Resistance 2.6 MECHANICAL CONSTRUCTION 1. Cooling 2. Dimensions (W x H x D) 3. Weight	Vout < 80	W: Input - Ground: 2200VDC/2900VDC, Input-Hazardous Output: 2200VDC/3100VDC, Input - SELV: 2200VDC/2900VDC; Output - SELV: 900VDC/900VDC/900VDC, Hazardous Output - Ground: 900VDC/900VDC. ut ≤ 300V: Input - Ground: 2200VDC/2900VDC; 2900VDC, Input-Hazardous Output: 2200VDC/3500VDC/3500VDC, Input - SELV: 900VDC/2900VDC; Hazardous Output - SELV: 900VDC/900VDC, Hazardous Output: 2200VDC/3500VDC/3900VDC, Input - SELV: 900VDC/2900VDC; Hazardous Output - SELV: 900VDC/900VDC, Hazardous Output: 300VDC/3900VDC, 900VDC 900VDC/2900VDC; Hazardous Output - SELV: 900VDC/900VDC, Hazardous Output: 300VDC/3900VDC, Input-SELV: 900VDC/2900VDC; Hazardous Output - SELV: 900VDC/900VDC/900VDC, Hazardous Output: 300VDC/3900VDC, Input-SELV: 900VDC/2900VDC, Hazardous Output - SELV: 900VDC/2900VDC, Input-Hazardous Output: 4500VDC/5040VDC, Input-SELV: 900VDC/2900VDC, Hazardous Output - SELV: 2500VDC/2500VDC/2500VDC, Hazardous Output: 4Ground: 2500VDC/5040VDC, Input-SELV: 900VDC/2900VDC, Hazardous Output - SELV: 2500VDC/2500VDC/2500VDC, Hazardous Output: 4Ground: 2500VDC/2500VDC 900VDC/2900VDC, Hazardous Output - SELV: 2500VDC/2500VDC/2500VDC, Hazardous Output: 4Ground: 2500VDC/2500VDC 900VDC/2900VDC, Ta = +25°C 900MD / 130M / 5.22" 900M / 16.9"; Height: 3U - 133mm / 5.22" 900M / 16.9"; Height: 3U - 133mm / 5.22" 900M / 16.9"; Alegid: 3U - 133mm / 5.22" 900VDC / 400V; S2Kg / 70lbs (Vout > 600V)
(208VAC/400VAC) (*7) 3.Insulation Resistance 2.6 MECHANICAL CONSTRUCTION 1. Cooling 2. Dimensions (W x H x D) 3. Weight	Vout < 80	W: Input - Ground: 2200VDC/2900VDC, Input-Hazardous Output: 2200VDC/3100VDC, Input - SELV: 2200VDC/2900VDC; Output - SELV: 900VDC/900VDC/900VDC, Hazardous Output - Ground: 900VDC/900VDC. ut ≤ 300V: Input - Ground: 2200VDC/2900VDC; 900VDC, Uput-Hazardous Output: 2200VDC/3500VDC, S00VDC, Input - SELV: 900VDC/900VDC, Hazardous Output - Ground: 900VDC/3900VDC, 900VDC 900VDC/2900VDC; Hazardous Output - SELV: 900VDC/900VDC, Hazardous Output: 300VDC/3900VDC/3900VDC, Input-SELV: 900VDC/2900VDC, Hazardous Output - Ground: 900VDC/3900VDC, Input-SELV: 900VDC/2900VDC, Hazardous Output - SELV: 900VDC/2900VDC, Input-Hazardous Output: 300VDC/3900VDC, Input-SELV: 900VDC/2900VDC, Input-Hazardous Output: 300VDC/3900VDC, Input-SELV: 900VDC/2900VDC, Input-Hazardous Output - Ground: 900VDC/3900VDC, Input-SELV: 900VDC/2900VDC, Input-Hazardous Output: 4G0UNDC/3900VDC, Input-SELV: 900VDC/2900VDC, Input-Hazardous Output: 4G0UNDC/3900VDC, Input-SELV: 900VDC/2900VDC, Input-Hazardous Output: 4G0UNDC/3900VDC/3900VDC 900VDC/2900VDC, Hazardous Output - SELV: 900VDC/2900VDC/2500VDC, Hazardous Output: 4G0UNDC/5040VDC, Input-SELV: 900VDC/2900VDC/2900VDC, Hazardous Output: 4G0UNDC/5040VDC, Input-SELV: 900VDC/2900VDC, Hazardous Output: 4G0UNDC/5040VDC, Input-SELV: 900VDC/2900VDC, Hazardous Output: 4G0UNDC/300VDC/2500VDC/2500VDC 900VDC/2900VDC, Hazardous Output: 500VDC/2500VDC, Ta = +25°C 900VDC, Hazardous Output: Selv: 100VDC/900VDC 900VDC, Hazardous Output: 500VDC, 500VDC, Ta = +25°C 900VDC, Hazardous Output: 500VDC, 50
(208VAC/400VAC/480VAC; for 60 seconds); (*7) 3.Insulation Resistance 2.6 MECHANICAL CONSTRUCTION 1. Cooling 2. Dimensions (W x H x D) 3.Weight 4. AC Input connector (with Protective Cover) 5.Output Connectors (busbar)	Vout < 80	W: Input - Ground: 2200VDC/2900VDC, Input-Hazardous Output: 2200VDC/3100VDC, Input - SELV: 2200VDC/2900VDC, Output - SELV: 900VDC/900VDC/900VDC, Hazardous Output - Ground: 900VDC/900VDC. ut ≤ 300V: Input - Ground: 2200VDC/2900VDC, 2900VDC, Input-Hazardous Output: 2200VDC/3500VDC/3500VDC, Input - SELV: 900VDC/2900VDC, Hazardous Output - SELV: 900VDC/900VDC, Hazardous Output: 300VDC/300VDC/3900VDC, 900VDC 900VDC/2900VDC, Hazardous Output - SELV: 900VDC/900VDC, Hazardous Output: 300VDC/3900VDC, 900VDC 900VDC/2900VDC, Hazardous Output - SELV: 900VDC/2900VDC, Input-Hazardous Output: 300VDC/3900VDC, 900VDC 900VDC/2900VDC, Hazardous Output - SELV: 900VDC/2900VDC, Input-Hazardous Output: 300VDC/3900VDC/900VDC 900VDC/2900VDC, Hazardous Output - SELV: 900VDC/2900VDC/900VDC, Input-Hazardous Output: 400VDC/5040VDC, Input-SELV: 900VDC/2900VDC/2900VDC, Input-Hazardous Output: 400VDC/5040VDC, Input-SELV: 900VDC/2900VDC/2900VDC/2900VDC, Hazardous Output: 400VDC/5040VDC/5040VDC, Input-SELV: 900VDC/2900VDC/2900VDC, Hazardous Output: 4 Ground: 2500VDC/2500VDC 900VDC/2900VDC, Hazardous Output: 500VDC/200VDC/2500VDC/2500VDC, Hazardous Output: 4 Ground: 2500VDC/2500VDC 900VDC/2900VDC, Ta = +25°C 900VDC/300VDC, Ta = +25°C 900VDC 900VDC 900VDC 133mm / 5.22" 900VDC 520V 900VDC 133mm / 5.22" 900VDC 132Mm / 5.22" 900VDC 100V ≤ 000V ≤ 1500V; excluding connectors, enc
(208VAC/400VAC) (*7) 3. Insulation Resistance 2.6 MECHANICAL CONSTRUCTION 1. Cooling 2. Dimensions (W x H x D) 3. Weight 4. AC Input connector (with Protective Cover) 5. Output Connectors (busbar)	Vout < 80	W: Input - Ground: 2200VDC/2900VDC, Input-Hazardous Output: 2200VDC/3100VDC, Input - SELV: 2200VDC/2900VDC; Output - SELV: 900VDC/900VDC, Hazardous Output - Ground: 900VDC/900VDC, Input - SELV: 2200VDC/3500VDC, Input - SELV: 900VDC/900VDC; ut ≤ 300V: Input - Ground: 2200VDC/2900VDC, Input-Hazardous Output: 2200VDC/3500VDC, Input - SELV: 900VDC/900VDC, Hazardous Output - Ground: 900VDC/900VDC, Input - SELV: 900VDC/2900VDC, Hazardous Output - Ground: 900VDC/900VDC, Input-SELV: 900VDC/2900VDC, Hazardous Output - SELV: 900VDC/900VDC, Input-Hazardous Output: 300VDC/3900VDC/900VDC, Input-SELV: 900VDC/900VDC, Input-Hazardous Output: 300VDC/3900VDC/900VDC, Input-SELV: 900VDC/2900VDC, Input-Hazardous Output: Ground: 900VDC/900VDC, Input-SELV: 900VDC/2900VDC, Input-Hazardous Output: 4500VDC/5040VDC, Input-SELV: 900VDC/2900VDC, Input-Hazardous Output: 4500VDC/5040VDC, Input-SELV: 900VDC/2900VDC, Input-Hazardous Output: - Ground: 900VDC/2900VDC/3900VDC 900VDC/2900VDC, Hazardous Output - SELV: 2500VDC/2900VDC, Input-Hazardous Output: 4500VDC/5040VDC, Input-SELV: 900VDC/2900VDC, Input-Hazardous Output: 4500VDC/5040VDC, Input-SELV: 900VDC/2900VDC, Input-SELV: 900VDC/2900VDC, Hazardous Output - Ground: 900VDC/2500VDC/2500VDC/2500VDC 900VDC/2900VDC, Hazardous Output - SELV: 2500VDC/2500VDC/2500VDC, Hazardous Output - Ground: 2500VDC/2500VDC/2500VDC 900VDC/2900VDC, Hazardous Output - SELV: 2500VDC/2500VDC/2500VDC, Input-Hazardous Output - Ground: 2500VDC/2500VDC/2500VDC 900VDC/2900VDC, Hazardous Output - SELV: 2500VDC/2500VDC/2500VDC, Input-SELV: 900VDC/900VDC 900VDC/2900VDC, Hazardous Output - SELV: 2500VDC/2500VDC/2500VDC 900VDC/2900VDC, Hazardous Output - SELV: 2500VDC/2500VDC/2500VDC/2500VDC 9
(208VAC/400VAC/480VAC; for 60 seconds); (*7) 3.Insulation Resistance 2.6 MECHANICAL CONSTRUCTION 1. Cooling 2. Dimensions (W x H x D) 3.Weight 4. AC Input connector (with Protective Cover) 5.Output Connectors (busbar) 6.Control Connectors	Vout < 80	W: Input - Ground: 2200VDC/2900VDC, Hazardous Output: 2200VDC/3100VDC, Input - SELV: 2200VDC/2900VDC, 200VDC, 41 ≤ 300VC /2900VDC, 41 ≤ 500VC /2900VC / 42 × 500VC / 42 × 500VC /2900VC / 42 × 500VC / 42 × 500VC /2900VC / 42 × 500VC /2900VC / 42 × 500VC /2900VC / 42 × 500VC /
(208VAC/400VAC) (480VAC; for 60 seconds); (*7) 3.Insulation Resistance 2.6 MECHANICAL CONSTRUCTION 1. Cooling 2. Dimensions (W x H x D) 3. Weight 4. AC Input connector (with Protective Cover) 5. Output Connectors (busbar) 6. Control Connectors 7. Mounting Method	Vout < 80	W: Input - Ground: 2200VDC/2900VDC, Input-Hazardous Output: 2200VDC/3100VDC, Input - SELV: 2200VDC/2900VDC; Output - SELV: 900VDC/900VDC, Hazardous Output - Ground: 900VDC/900VDC, Input - SELV: 2200VDC/3500VDC, Input - SELV: 900VDC/900VDC; #t ≤ 300V: Input - Ground: 2200VDC/2900VDC, Ioput-Hazardous Output: 2200VDC/3500VDC/3500VDC, Input - SELV: 900VDC/900VDC, Hazardous Output - Ground: 900VDC/900VDC, Input-SELV: 900VDC/2900VDC, Hazardous Output - SELV: 900VDC/2900VDC, Hazardous Output - SELV: 900VDC/2900VDC, Hazardous Output - Ground: 900VDC/900VDC, Input-SELV: 900VDC/2900VDC, Input-Hazardous Output: 300VDC/3900VDC/900VDC, Input-SELV: 900VDC/2900VDC, Input-Hazardous Output - Ground: 900VDC/900VDC, Input-SELV: 900VDC/2900VDC, Input-Hazardous Output - Ground: 900VDC/900VDC, Input-SELV: 900VDC/2900VDC, Input-Hazardous Output: Ground: 900VDC/900VDC, Input-SELV: 900VDC/2900VDC, Input-Hazardous Output: Ground: 900VDC/2500VDC, Input-SELV: 900VDC/2900VDC, Input-SELV: 900VDC/2900VDC, Hazardous Output - Ground: 2500VDC/2500VDC/2500VDC/2500VDC/2500VDC/2500VDC/5040VDC, Input-SELV: 900VDC/2900VDC, Input-Hazardous Output - Ground: 2500VDC/2500VDC/2500VDC 900VDC/2900VDC, Hazardous Output - SELV: 2500VDC/2500VDC/2500VDC/2500VDC, Hazardous Output - Ground: 2500VDC/2500VDC/2500VDC 900VDC/2900VDC, Hazardous Output - SELV: 2500VDC/2500VDC/2500VDC, Hazardous Output - Ground: 2500VDC/2500VDC/2500VDC 900VDC/2900VDC, Hazardous Output - SELV: 2500VDC/2500VDC/2500VDC/2500VDC 900VDC/2900VDC, Hazardous Output - SELV: 2500VDC/2500VDC/2500VDC/2500VDC/2500VDC/2500VDC/2500VDC 900VDC/2900VDC, Ta = +25°C 900VDC/200VDC, Ta = +25°C 900VDC/200VDC, Ta = +25°C 900VDC/200VDC, SELV
(208VAC/400VAC/480VAC; for 60 seconds); (*7) 3.Insulation Resistance 2.6 MECHANICAL CONSTRUCTION 1. Cooling 2. Dimensions (W x H x D) 3. Weight 4. AC Input connector (with Protective Cover)	Vout < 80	W: Input - Ground: 2200VDC/2900VDC, Hazardous Output: 2200VDC/3100VDC, Input - SELV: 2200VDC/2900VDC, 200VDC, 41 ≤ 300VC /2900VDC, 41 ≤ 500VC /2900VC / 42 × 500VC / 42 × 500VC /2900VC / 42 × 500VC / 42 × 500VC /2900VC / 42 × 500VC /2900VC / 42 × 500VC /2900VC / 42 × 500VC /

1. Warranty 5 years

*6. Please contact TDK-Lambda Sales/Technical Support to discuss your Parallel or Series application in more detail. *7 Please contact TDK-Lambda Sales/Technical Support to discuss your System-Level Withstand Voltage requirements in more detail.





Genesys[™] Power Parallel and Series Configurations

Parallel Operation - Master/Slave (*6)

Active current sharing allows up to four identical units to be connected in an Auto-parallel configuration for the Output power. In Advanced Parallel Master/Slave Mode, total current is programmed and reported by the Master, Up to four 10kW/15kW Power Supplies in parallel act as one 40kW/60kW Power Supply.

Series Operation (*6)

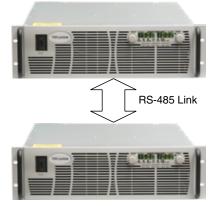
Up to two units may be connected in series to increase the Output voltage or to provide bipolar output. (Max 600V to Chassis GND for Vor < 600V; Max 1500V to Chassis GND for 600V < Vor < 1500V).

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 or optional LAN, USB or IEEE Interface.



RS-232, RS-485 LAN, IEEE or USB



Programming Options (Factory installed)

Standard RS-232/RS-485 (Multi-Drop) Interface

- Standard Units are equipped with the RS-485 Multi-Drop function
- Allows RS-232 or RS-485 Master unit to control up to 30 (standard) Slave units using RS-485 daisy-chain

LAN Interface (**LX** Compliant w/ Multi-Drop)

- Meets all LXI Class C Requirements
- Address Viewable on Front Panel .
- Fixed and Dynamic Addressing
- Fast Startup

IEEE (Multi-Drop) Interface

- IEEE 488.2 & SCPI compliant
- Allows IEEE Master to control up to 30 (standard) Slave units using RS-485 daisy-chain • Program/Measure Current
- . Program/Measure Voltage
- . Over-Voltage setting and shutdown
- Error and Status Messages

USB (Multi-Drop) Interface

- USB 2.0 compliant
- Allows serial connection to computer USB port
- Allows USB Master to control up to 30 (standard) Slaves using RS-485 daisy-chain
- Uses same command set as standard RS-232/RS-485 interface

Isolated Analog Programming

- Option for models with Vout ≤ 600V (IS510 & IS420); IS510 built-in for models where 800V ≤ Vout ≤ 1500V
- Four Channels total (Two channels to Program Voltage and Current; Two channels to 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: ±1.0% Power supply Voltage and Current Monitoring Accuracy: ±1.5%
- Current Programming with 4-20mA signal Power supply Voltage and Current Programming Accuracy: ±1.0% Power supply Voltage and Current Monitoring Accuracy: ±1.5%

VISA & SCPI Compatible

LAN Fault Indicators

Current Foldback shutdown

- Auto-detects LAN Cross-over Cable
- Compatible with most standard Networks

P/N: IEMD (for all models)

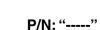
P/N: LAN (for all models)

P/N: USB (for all models)

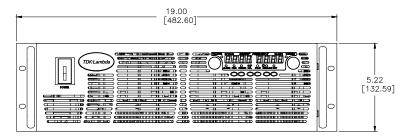
P/N: IS510 (for Vout \leq 600V)

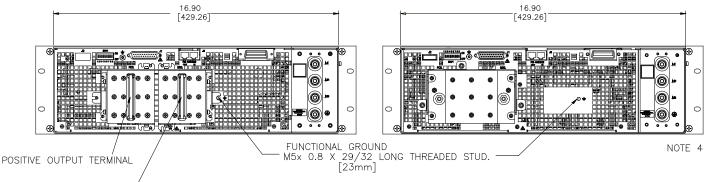
P/N: IS420 (for all models)



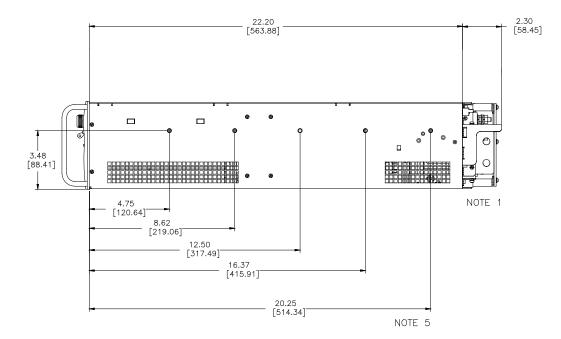


Outline Drawing: Genesys[™] 10kW/15kW (7.5V to 25V - 208VAC/400VAC/480VAC)





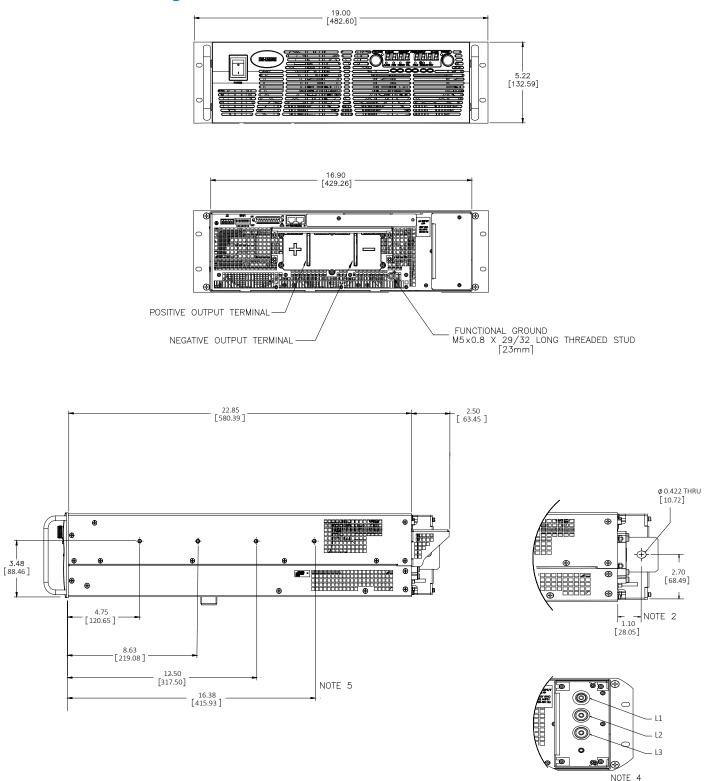
- NEGATIVE OUTPUT TERMINAL



NOTES:

- 1. Busbars for models where Vout < 30V Output: two holes 0.42" (10.72mm) diameter.
- 2. N/A
- 3. N/A
- 4. Input Terminals: M6 x 1" (Qty = 3); Ground Terminal: M5 x 1" (Qty = 2)
- Mounting for Slide Mounts (not included). Recommend: General Devices, Chassis Trak P/N C230-S-122; Verify requirements with slide manufacturer. Secure with pan head screw: M5 x 0.8-8mm long (max).

Outline Drawing: Genesys[™] 10kW/15kW (30V to 300V - 208VAC/400VAC/480VAC)



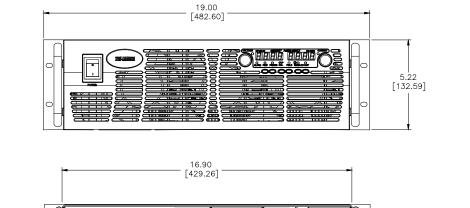
NOTES:

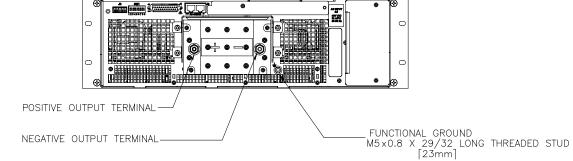
- 1. N/A
- 2. Bus bars for models 30-300V Output (10kW/15kW): one hole 0.42" (10.72mm) diameter.
- 3. N/A
- 4. Input Terminals: M6 x 1" (Qty = 3) + Ground M5 x 1" (Qty = 2)
- 5. Mounting for Slide Mounts (not included).

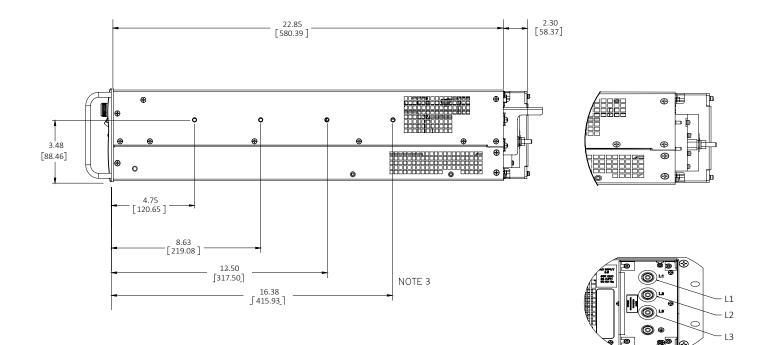
Recommend General Devices, Chassis Trak P/N C230-S-122; Verify requirements with slide manufacturer. Secure with pan head screw: M5 x 0.8-8mm long (max).



Outline Drawing: Genesys[™] 10kW/15kW (400V to 600V - 208VAC/400VAC/480VAC)



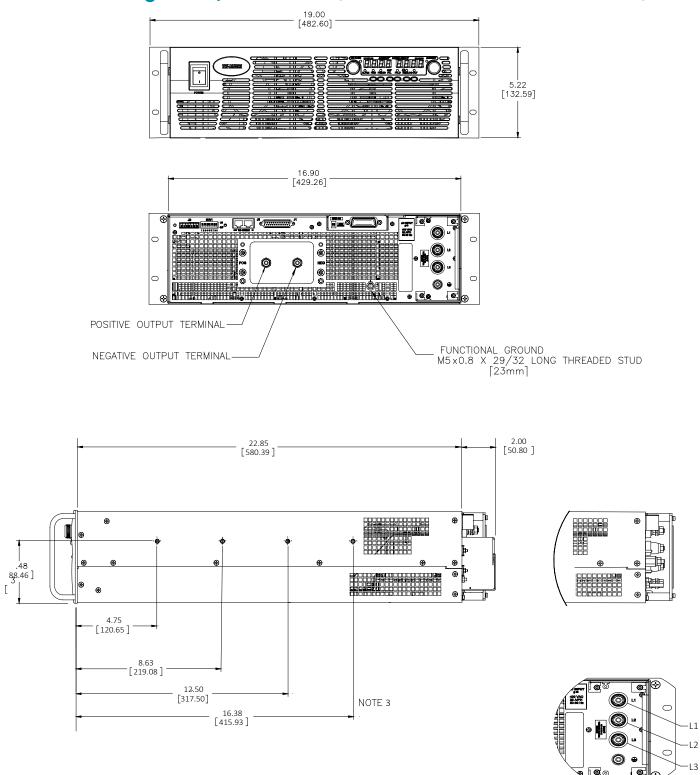




NOTES:

- 1. N/A
- 2. N/A
- 3. Threaded-stud terminals for models with $300V < Vout \le 600V$ (M5 x 1").
- 4. Input Terminals M6 x 1" (Qty = 3) + Ground M5 x 1" (Qty = 2)
- Mounting for Slide Mounts (not included). Recommend General Devices, Chassis Trak P/N C230-S-122; Verify requirements with slide manufacturer. Secure with pan head screw: M5 x 0.8-8mm long (max).

Outline Drawing: Genesys[™] 10kW/15kW (800V to 1500V - 208VAC/400VAC/480VAC)



NOTES:

- 1. N/A 2. N/A
- 3. Threaded stud terminals for models with 800V \leq Vout \leq 1500V Output (M5 x 1").
- 4. Input Terminals M6 x 1" (Qty = 3) + Ground M5 x 1" (Qty = 2)
- Mounting for Slide Mounts (not included). Recommend General Devices, Chassis Trak P/N C230-S-122; Verify requirements with slide manufacturer.

Secure with pan head screw M5 x 0.8-8mm long (max).

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Power Supply Identification / Accessories (Genesys[™] 3U 10kW/15kW) How to Order:

Se	EXAMPLE AND ADDRESS Outperies Outper	out Out age Curi	Fai Dut O	LAN ctory Options ption: "" LAN IEMD	- 3P208 AC Input Options 3P208 (Three- 3P400 (Three- 3P480 (Three-	Phase 400	/AC)
	(0)			USB IS510			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Model	Output Voltage (Vdc)	Output Current (Adc)	Output Power (kW)	IS420	Model	Output Voltage (Vdc)	0 Cu (
GEN 7.5-1000	0~7.5	0~1000	7.5]	GEN 200-50	0.000	0
GEN 10-1000	0~10	0~1000	10	1	GEN 200-75	0~200	0
GEN 12.5-800	0~12.5	0~800	10		GEN 250-40	0~250	0
GEN 20-500	0~20	0~500	10		GEN 250-60	0~250	0
GEN 25-400	0~25	0~400	10]	GEN 300-33	0~300	0
GEN 30-333	0~30	0~333	10		GEN 300-50	0~300	0
GEN 30-500	0~30	0~500	15		GEN 400-25	0~400	0
GEN 40-250	0~40	0~250	10]	GEN 400-37.5	0~400	0.
GEN 40-375	0~40	0~375	15]	GEN 500-20	0~500	0
GEN 50-200	0~50	0~200	10		GEN 500-30	0~500	C
GEN 50-300	0~50	0~300	15		GEN 600-17	0~600	0
GEN 60-167	0~60	0~167	10]	GEN 600-25	0~800	C
GEN 60-250	0~80	0~250	15]	*GEN 800-12.5	0~800	0.
GEN 80-125	0~80	0~125	10		*GEN 800-18.8	0~800	0.
GEN 80-187.5	0~80	0~187.5	15		*GEN 1000-10	0~1000	0
GEN 100-100	0~100	0~100	10]	*GEN 1000-15	0~1000	0
GEN 100-150	0~100	0~150	15		*GEN 1250-8	0~1250	
GEN 125-80	0~125	0~80	10		*GEN 1250-12	0~1250	0
GEN 125-120	0~125	0~120	15]	*GEN 1500-6.7	0~1500	0
GEN 150-66	0~150	0~66	10]	*GEN 1500-10	0~1500	C
GEN 150-100	0~150	0~100	15]			

Factory options

RS-232/RS-485 Multi-Drop Interface (built-in standard) LAN Interface (**LX** Class C compliant w/ Multi-Drop) GPIB (488.2 w/ Multi-Drop) Interface USB (2.0 w/ Multi-Drop) Interface Isolated Analog Interface (Voltage Program/Monitor) Isolated Analog Interface (Current Program/Monitor)

Accessories

1. Serial Communication cable (optional)

RS-232/RS-485 cable is used to connect the power supply to the Host PC.

P/N

"____" LAN IEMD USB IS510 *(built-in standard on 800-1500V models) IS420

Output

Current

(Adc)

0~50

0~75

0~40

0~60 0~33

0~50

0~25

0~37.5

0~20

0~30

0~17

0~25

0~12.5

0~18.8

0~10

0~15

0~8

0~12

0~6.7

0~10

Output

Power

(kW)

10

15

10

15

10

15

10

15

10

15

10

15

10

15

10

15

10

15

10

15

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 (optional)

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

Genesys[™] Family - Output Voltage / Output Current

Model	GENH		GEN-1U		GEI	N-2U	GE	EN 3U
Rated Power	750W	750W	1.5kW	2.4kW	3.3kW	5.0kW	10kW	15kW
Voltage Range				Output	Current Rang	je		
0~6V	0~100A	0~100A	0~200A					
0~7.5V							0~1000A	
0~8V	0~90A	0~90A	0~180A	0~300A	0~400A	0~600A		
0~10V				0~240A	0~330A	0~500A	0~1000A	
0~12.5V	0~60A	0~60A	0~120A				0~800A	
0~15V					0~220A			
0~16V				0~150A		0~310A		
0~20V	0~38A	0~38A	0~76A	0~120A	0~165A	0~250A	0~500A	
0~25V							0~400A	
0~30V (15kW) - NEW !	0~25A	0~25A	0~50A	0~80A	0~110A	0~170A	0~333A	0~500A
0~40V (15kW) - NEW !	0~19A	0~19A	0~38A	0~60A	0~85A	0~125A	0~250A	0~375A
0~50V (15kW) - NEW !			0~30A				0~200A	0~300A
0~60V	0~12.5	0~12.5A	0~25A	0~40A	0~55A	0~85A	0~167A	0~250A
0~80V	0~9.5A	0~9.5A	0~19A	0~30A	0~42A	0~65A	0~125A	0~187.5A
0~100V	0~7.5A	0~7.5A	0~15A	0~24A	0~33A	0~50A	0~100A	0~150A
0~125V							0~80A	0~120A
0~150V	0~5A	0~5A	0~10A	0~16A	0~22A	0~34A	0~66A	0~100A
0~200V - NEW !					0~16.5A	0~25A	0~50A	0~75A
0~250V							0~40A	0~60A
0~300V	0~2.5A	0~2.5A	0~5A	0~8A	0~11A	0~17A	0~33A	0~50A
0~400V (5.0kW) - NEW !						0~12.5A	0~25A	0~37.5A
0~500V (5.0kW) - NEW !						0~10A	0~20A	0~30A
0~600V	0~1.3A	0~1.3A	0~2.6A	0~4A	0~5.5A	0~8.5A	0~17A	0~25A
0~800V - NEW !							0~12.5A ⁽⁵⁾	0~18.8A ⁽⁵⁾
0~1000V - NEW !							0~10A ⁽⁵⁾	0~15A ⁽⁵⁾
0~1250V - NEW !							0~8A ⁽⁵⁾	0~12A ⁽⁵⁾
0~1500V - NEW !							0~6.7A ⁽⁵⁾	0~10A ⁽⁵⁾
Weight (kg/lb)	4.5 / 9.9	7.0 / 15.0	8.5 / 18.0	10 .0 / 22.0	13.0 / 29.0	16.0 / 35.0	43.0 / 97.0	43.0 / 97.0 32.0 / 70.0 ⁽⁶⁾

(6) 800V - 1500V models only (10kW/15kW)

AC Inputs

85-265Vac, 1Ø	• (1)	• (1)	• (1)					
230Vac, 1Ø				• (1	• (1)			
208Vac, 3Ø				• (1	• (1)	• (1)	• (3)	• (3)
400Vac, 3Ø					• (1)	• (1)	• (3)	• (3)
480Vac, 3Ø					• ⁽²⁾ - NEW !	• ⁽²⁾ - NEW !	• (3), (4)	• (3), (4)

(1) UL Listed; CE Mark (RoHS2); (2) UL Listed (RoHS2); (3) UL Recognized, CE Mark (RoHS2) - (Vout > 25V); 4) UL Recognized, RoHS2 (Vout < 25V)

Options (All Models)

""	Standard RS-232/RS-485 Master with RS-485 Multi-Drop capability installed
LAN	LXI Compliant LAN Interface (Class C) with RS-485 Multi-Drop capability installed
IEMD	IEEE Master (IEEE 488.2 & SCPI compliant) with RS-485 Multi-Drop capability installed
USB	USB (2.0) Master with RS-485 Multi-Drop capability installed
IS510	Isolated Analog Program/Monitor (0-5V or 0-10V, user-selectable) for 6V-600V models; *(5)
IS420	Isolated Analog Program/Monitor (4-20mA)

All "Options" are factory installed and limited to one "option" per power supply

*(5) Isolated 5V/10V (IS510) Interface is bulit-in standard for 800V-1500V models

All specifications are subject to change without notice

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USA

TDK-Lambda Americas Inc. 405 Essex Rd. Neptune, NJ 07753 Tel: +1-732-795-4100 Fax: +1-732-922-1441 E-Mail: sales@us.tdk-lambda.com Web: www.us.tdk-lambda.com/hp

CANADA

ACA TMetrix

3835 Laird Road, Mississauga, Ontario, L5L 5Y4 Tel: +1-800-665-7301 Fax: +1-905-890-1959 E-Mail: lambda@aca.ca Web: tmetrix.com

MEXICO

AcMax de Mexico 39 Poniente 3515 Piso 5 Col. Las Animas Puebla, Pue. C.P. 72400 Tel: 01-800-211-0060 / (222) 891-8484 Fax: 222-264-1445 E-Mail: info@acmax.mx, Web: www.acmax.mx

BRAZIL

UK

Supplitec

Rua Sena Madureira 465 31340-000 Belo Hte - MG-Brazil Tel: +55-31-3498-1177 E-Mail: vendas@suplitec.com.br, Web: www.suplitec.com.br

IRELAND

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

FRANCE NETHERLANDS SPAIN

TDK-Lambda France SAS 3 Avenue du Canada, Parc Technopolis - Batiment Sigma 91940 Les Ulis - France CS 41077 Tel: +33 1 60 12 71 65 Fax: +33 1 60 12 71 66 E-Mail: france@fr.tdk-lambda.com, Web: www.fr.tdk-lambda.com

GERMANY

AUSTRIA SWITZERLAND

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

ITALY

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

BALTICS

SCANDINAVIA

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

⊗TDK

Web: www.de.tdk-lambda.com

3-9-1, Shibaura, Minato-ku, Tokyo 108-0023, Japan Tel: +81-3-6852-7125 Fax: +81-3-6852-7140

JAPAN

TDK-Lambda Corporation

International Sales Division,

Web: www.jp.tdk-lambda.com

GLOBAL NETWORK

CHINA

Wuxi TDK-Lambda Electronics Co. Ltd, Shanghai Office 5th Floor Kehui Tower, 1188 Qinzhou Road (North) Xuhui District Shanghai, 200233 P.R. CHINA Tel: +86-21-6485-0777 Fax: +86-21-6485-0666 Web: www.cn.tdk-lambda.com

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

Shenzen Branch of Wuxi TDK-Lambda Electronics Co. Ltd. 69/F, Ping An Finance Center, 5033 Yitian Road Futian District, Shenzen, P. R. CHINA Tel: +86-755-83588261 Fax: +86-755-83588260 Web: www.cn.tdk-lambda.com

KOREA

TDK-Lambda Corporation Korea Branch (Seocho-Dong, 8F, Songnam Bldg.) 273, Gangnam-Daero, Seochu-Gu. Seoul 137-862, Republic of Korea 137-862 Tel: +82-2-3473-7051 Fax: +82-2-3472-9137 www.tdk-lambda.co.kr

MALAYSIA

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

THAILAND

SINGAPORE PHILIPPINES TDK-Lambda Singapore Pte. Ltd. 1008 Toa Payoh North # 06-01/08, #07-01/03 Singapore 318996 Tel: +65-6251-7211 Fax: +65-6250-9171 Web: www.sg.tdk-lambda.com

INDIA

TDK-Lambda Singapore Pte. Ltd. (India Branch) No.989, 1st Cross, 2nd Floor, 13th Main, HAL 2nd Stage, Bangalore, Karnataka, India-560 008 Tel : +91-80-43550 500 Fax :+91-80-43550 501 E-Mail: mathew.philip@in.tdk-lambda.com Web: www.in.tdk-lambda.com

RUSSIA

ISRAEL

TDK-Lambda Ltd. Israel Kibbutz Givat Hashlosha Tel-Aviv 48800, Israel Tel: +972-3-9024-333 Fax: +972-3-9024-777 E-Mail: info@tdk-lambda.co.il Web: www.tdk-lambda.co.il

TDK-Lambda Americas Inc. 405 Essex Road, Neptune, NJ 07753 USA Tel: +1 732 795 4100 Fax: +1 732 922 1441 www.us.tdk-lambda.com/hp 93-530-001, Rev. L2