Genesvs [™]	211	101/W	Chaoifi	actions
Genesvs'''	3U	IUKVV	Specific	cations

1.0 MODEL	GEN		10-1000			25-400	30-333	40-250	50-200	60-167	80-125	100-100	125-80	I
1.Rated Output Voltage	VDC	7.5	10	12.5	20	25	30	40	50	60	80	100	125	+
2.Rated Output Current	ADC	1000	1000	800	500	400	333	250	200	167	125	100	80	+
3.Rated Output Power	kW	0.75	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	\perp
Efficiency (min) at low AC line, 100% Rated Load	%	77						83						1
I.1 CONSTANT VOLTAGE MODE (CV)					C	ontact Fa	ctory for c	ther mod	lels					上
. Max. Line Reg (0.1% - Vor ≤ 30V; 0.01% - 30V < Vor ≤		1												$\overline{}$
00V; 0.05% - 600V < Vor ≤ 1500V)	mV	7.5	10	12.5	20	25	30	4	5	6	8	10	12.5	1
2. Max. Load Reg (0.1% - Vor ≤ 30V; 0.02% - 30V < Vor ≤	mV	7.5	10	12.5	20	25	30	8	10	12	16	20	25	T
300V; 0.1% - 600V < Vor ≤ 1500V) B. Ripple, rms, 5Hz~1MHz, CV (*1)	mV	20	20	20	20	20	20	20	20	20	25	25	25	+
1. Output Noise, p-p, (20MHz), CV (*1)	mV	60	60	60	60	60	60	60	75	75	100	100	125	+
5.Remote Sense Compensation / Wire	V	1	1	1	1	1	1.5	2	3	3	4	5	5	十
5. Temperature Stability		± 0.05%	of Vo(rat	ed) over 8	hours af	ter 30 mir					Temperatu			Ť
7. Temperature Coefficient	ppm / °C	± 200 (=	± 0.02% o	f Vo Rated	d) / °C									Ť
3. Up-Prog. Response Time, 0 ~ Vomax, full-load	ms							100						\perp
9. Up-Prog. Response Time, 0~Vomax, no-load	ms							50						↓
10. Transient Response Time (CV mode) (*2)	ms						Les	s than 3						⊥
1.2 CONSTANT CURRENT MODE (CC)														
I. Max. Line Reg. (0.1% - Ior ≥ 333A; 0.050% - 17A < Ior < 333A; 0.15% - Ior < 17A)	mA	1000	1000	800	500	400	333	125	100	83.5	62.5	50	40	
2. Max. Load Reg (0.1% - Ior ≥ 333A; 0.075% - 17A ≤ Ior < 333A; 0.2% - Ior < 17A) (*3)	mA	1000	1000	800	500	400	333	188	150	125	94	75	60	
B. Ripple rms, 5Hz~1MHz, CC	mA	5300	4000	2560	1000	640	444	250	160	67	50	40	32	\dagger
Temperature Stability											Temperatu			Ť
5. Temperature Coefficient	ppm/°C		± 0.03% o											Ì
1.3 PROTECTIVE FUNCTIONS														
1. OCP	%	0 ~ 100												Т
2. OCP type		Constar	nt current											Ī
3. Foldback Protection (FOLD)											n, user-sel	ectable		I
4. Foldback Response Time	S		an 1 (Min											Ţ
5. OVP type					I reset by	AC On/O	ff recycle,	OUT but	ton, Rem	ote Analo	g or Digita	al commuind	cation	Ţ
6. OVP Programming Accuracy	%		Vo(rated)			0017			B -		456511			Ţ
7. OVP Trip Point	V		05% of Vo 5% of Vo(:					of Vo(rate	ed) - 600	v < Vor ≤	1500V; Sh	nall always I	oe greater	
B. OVP Response Time	ms	Less tha		Output to				V; Less th	nan 2.0 (f	or Output	to begin to	o drop) for		†
9. Max. OVP Reset Time	s		AC On/Of		ırn On)									+
10. Over-Temperature Protection (OTP)		_ `				reeds sat	fe oneratir	na levels	(Latched	Safe-mo	de / Unlate	ched: Auto-i	mode)	+
11. Phase-Loss Protection			wer supply								do / Omat	onea. nato i	nouc,	十
1.4 REMOTE ANALOG CONTROLS & SIGNALS														_
Vout Voltage Programming	0~100%,	0 ~ 5V or	0 ~ 10V ı	ıser-selec	table Ac	curacy &	Linearity:	+1% of \	(o(rated)			-		Т
2. lout Voltage Programming	0~100%,													十
3. Vout Resistor Programming		0 ~ 5/10kg								ated)				+
4. Iout Resistor Programming		0 ~ 5/10kg												十
5. Shut-Off (SO) Control (rear panel)	By Voltag	e: 0.6V =	Disable, 2	2-15V = E	nable (def	ault) or D	ry Contac	ct: Open =	EN, Sho	ort = DIS	(user-sele	ctable logic)	Ť
6. Output Current Monitor	0 ~ 5V or	0 ~ 10V, /	Accuracy:	± 1% of lo	o(rated), ι	ıser-seled	ctable							Ť
7. Output Voltage Monitor	0 ~ 5V or													Ť
8. Power Supply OK (PS_OK) Signal	Yes. TTL	High = Oh	K, 0V = Fa	il (500ohr	n series i	mpedanc	e)							Ť
9. CV/CC Signal		High (4 ∼ !									t = 10mA			Ι
10. Enable/Disable		ct; Open								6V				Ţ
11. Remote/Local Selection		Remote or			<u> </u>								·	Ţ
12. Remote/Local Signal	Signals o	perating n	node; Ope	en collecto	or: Local =	Open (N	/lax voltag	je = 30V)	Remote	= On (Ma	ax sink cur	rent = 10m	A)	
1.5 FRONT PANEL														
1.Control Functions		manual a								le)				L
		manual a		-	•			ck/Unloc	k					L
	1	selection b	, ,	,				O	N// 25					F
		FF, Outpu				, .			v to CC), Go-to-L	.ocal			F
	1	RS-485, IE				-			000 /			law\		H
		e selection d Parallel I									just encod	ier)		\vdash
2.Display		d Parallel I digits, Ad					x = # OT S	olave unit	s (U 10 4)	, 5 = 518V	e utiit(S)			+
L.Dispidy		i aigits, Ad 1 digits, Ad	,		, ,									H
		displays	,		` ,		or at load	l (Remote	sense)					\vdash
3.Indications		D's: PRE												+
·······		: ALRM (C					J. 1, JV/	,vL						
I.6 DIGITAL PROGRAMMING & READBACK														
Vout Programming Accuracy	± 0.5% of	f rated Ou	tput voltaç	ge										I
2. lout Programming Accuracy	± 0.5% of				s with lo <	187.5A;	± 0.7% of	rated Ou	tput curre	ent for lo	≥187.5A			Ι
	0.02% of	Vo(rated)												I
3. Vout Programming Resolution	0.04% of													Ţ
		of Vo(actua	al) + 0.2%											Ţ
Vout Programming Resolution Iout Programming Resolution Vout Readback Accuracy	± (0.1% c					_		_				_		-1
4. lout Programming Resolution 5. Vout Readback Accuracy 6. lout Readback Accuracy	± (0.1% c	of lo(actua	l) + 0.4%	of lo(rated	d))									┸
4. Iout Programming Resolution 5. Vout Readback Accuracy 6. Iout Readback Accuracy 7. Vout Readback Resolution	± (0.1% of	of Io(actua Vo(rated)	l) + 0.4%	of lo(rated	d))									‡
4. Iout Programming Resolution 5. Vout Readback Accuracy 6. Iout Readback Accuracy 7. Vout Readback Resolution 8. Iout Readback Resolution	± (0.1% of 0.02% of 0.02% of	of lo(actua Vo(rated) lo(rated)												‡
4. lout Programming Resolution	± (0.1% of 0.02% of 0.02% of 20ms ma	of Io(actua Vo(rated)	etween Vo	out exceed	ding IEEE									‡ ‡

^{*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 lo(rated).

*3 .From 20% - 100% for models with lor < 17A.

All specifications subject to change without notice.

Genesvs™ 3U 10kW Specifications

Thirded Collapti Visionary April Collapti Vi	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	
States Chipself Power Fower State Stat														
ABBIERRY 1.00 1.0	<u> </u>	 												╙
11 COMPATION CLARE MODE (CV)	·		9.9	10.0	10.0		10.0	10.0	10.2	10.0			10.0	╀
Abov. Land. 19 (17 - 17 - 17 - 17 - 17 - 17 - 17 - 17		%					act Facto	ry for othe	r modele		9	3.5		╀
GROVA CASES - GROVA - Ver C + 1900(V)		1	<u> </u>			Cont	aci Facio	ry ior oure	models					누
GOM CLIP GODY Color SECRET COLOR C	600V; 0.05% - 600V < Vor ≤ 1500V)	mV	15	20	25	30	40	50	60	400	500	625	750	Ļ
4 Output Notes, pp (20MHz) (V1) (V1) mV 150 175 200 200 300 300 300 300 300 1000 1400 5. Increase flavore Compensation / Wile V 5 5 5 5 5 5 5 5 5	600V; 0.1% - 600V < Vor ≤ 1500V)	ļ												Ļ
S. Remorability														╀
Temperature Stabelity														十
Sup-Prog Response Time, 0.1-max, no load	·		± 0.05%	6 of Vo(ra	ated) over	8 hours a	fter 30 m	nute warr	n up (cons		Load & Te	mperature)		İ
10 - Price Response Time - O-Verlance, no load ms So Less than 1	·	* * * *	± 200 (0.02% of	Vo Rated					,				L
10. Transcent Response Time (CV mode) (*2)									-					╀
12.COMSTANT CUBRENT MODE (CC)		 	 				3							t
Max. Line Reg. (0.1% - for 2.33x0. 0.05% - 17 A - for <	· · · · · · · · · · · · · · · · · · ·													_
2. Mas Load Reg (0.1% - lor g. 333A 0.075% - 17A ≤ lor <	1. Max. Line Reg. (0.1% - lor ≥ 333A; 0.050% - 17A < lor <	mA	33	25	20	17	13	10	9	19	15	12	10	Τ
3. Applier mg. 5Hz-1MHz, CC	2. Max. Load Reg (0.1% - lor ≥ 333A; 0.075% - 17A ≤ lor <	mA	50	38	30	25	19	15	13	25	20	15	14	T
5. Remperature Coefficient 1. PROTECTIVE PUNCTIONS 1. OP 100 2. COEP type		mA	26	20	16	13	10	8	7	15	10	6	4	丁
1.3 PROTECTIVE FUNCTIONS 1.0 - 100 1.0 CP 1.0 Containst current 2. Code type 1.0 Containst current 2. Code type 1.0 Containst current 2. Foldback Response Time 2. Less than 1 (Min = 0.25 / Max = 25 / Delbut = 0.29); Settable via "FBD" command 2. Code type 2. Code typ	4. Temperature Stability	+		6 of lo R	ated over	8 hours at	ter 30 mi	nute warm	up (cons	tant Line,	Load & Ter	nperature)		Γ
1.0 CP	5. Temperature Coefficient	ppm / °C	± 300 (0.03% of	lo Rated)	/ °C								\perp
Constant current														_
3. Fiolistack Projection (FOLD)														\perp
S. Less than 1 (Min = 0.25 / Max = 25 / Default = 0.25). Setable via "FED" command						l rocat hi	front non	OUT L	tton or Di	gital ac	nunication	usor octo	table	+
Every term shuf-down; Manual reset by AC On/Off recycle, OUT button, Remote Analog or Digital comm.	, ,	. 										user-seleci	able	╁
7.0VP Trip Point	<u> </u>											or Digital co	omm.	t
Sovering From	6. OVP Programming Accuracy	%	± 5% o	f Vo(rated	d)									L
Source S	7. OVP Trip Point	V	than 10	5% of Vo	(setting);	Default =	105% of \	/o(rated).	,					gre
10. Over-femperature Protection (OTP)	<u> </u>	<u> </u>	600V <	Vor ≤ 15	00V.		drop) for	Vor ≤ 600	V; Less th	nan 2.0 (fo	r Output to	begin to di	rop) for	Ļ
11. Phase-Loss Protection		 	 								0 ((11)			╀
1. Neut Voltage Programming	· · · · · · · · · · · · · · · · · · ·	+										atched: Aut	0)	╀
1. Vout Voltage Programming			165, po	wei supp	ny silutuo	WII (Latell	eu. Saie-i	node / Oi	ilatorieu. F	dio-mode	·)			_
2. lout Voltage Programming		0.100%	0 51/0	.0 . 10\/	ucor colo	otable Ac	oursey &	Linoarity	+ 1% of \	(o(ratod)				т
3. Vout resistor programming 0 - 100%, 0 - 5/10kohm full-scale, user-selectable. Accuracy & Linearity ± 1% of Vo(rated) 4. fout Resistor Programming 0 - 100%, 0 - 5/10kohm full-scale, user-selectable. Accuracy & Linearity ± 1% of Io(rated) 5. Shut-Off (SO) Control (rear panel) 5. Shut-Off (SO) Control (rear panel) 6. Output Current Monitor 0 - 5V or 0 - 10V, Accuracy ± 1% of Vo(rated), user-selectable 7. Output Voltage Monitor 0 - 5V or 0 - 10V, Accuracy ± 1% of Vo(rated), user-selectable 8. Power Supply OK (PS, OK) Signal 7. Output Voltage Monitor 8. Power Supply OK (PS, OK) Signal 9. CVTCL Signal CV: TTL. High 6 - 5V), Max source current = 10mC. CC: TTL. Low (0 - 0.4V), Max sink current = 10mA 10. Enable/Disable Dry contact; Open = Off, Short = On; Max. voltage across Enable/Disable contacts = 6V 11. Remote/Local Signal Signals operating mode; Open collector: Local = Open (Max voltage = 30V), Remote = On (Max sink current = 10mA) 15. FRONT PANEL 1. Control Functions Vout/ Iout manual adjust by separate encoders (coarse and fine adjustment selectable) OVP/UVL manual adjust by Voltage Adjust encoder, # of addresses = 31 AC ON/OFF, Output On/Off, Restart Modes (Auds), Foldback Control (CV to CC), Go-to-Local RS-232/RS-485, IEEE ((EMD) and LAN selection by rear-panel DIP-switch Baud rate selection (RS-232/RS-485 only), 1200, 2400, 4800, 9600 and 19,200 (by current adjust encoder) Advanced Parallel Master/Stave: Hx = Master unit, where x = # of Stave units (b to 4), Slave = Slave unit(e) Voltage: 4 digits, Accuracy: ± 0.5% of Vo(rated) ± 1 count Voltmeter displays voltage at power supply (Local sense) or at load (Remote sense) Green LEDs: PREVIEW, POLD, REMIJOCAL, OUT ON/OFF, CV/CC, FINE Red LED: ALTIMI (CVP, OTP, FOLD, AC FAIL, ENA, SO) 1. Digramming Accuracy ± 0.5% of rated Output voltage 2. Lout Programming Accuracy ± 0.1% of Vo(actual) ± 0.2% of Vo(rated)) 8. Iout Readback Accuracy ± 0.1% of Vo(actual) ± 0.2% of Vo(rated) 8. Iout Readback Resolution 0.02% of Vo(rated) 9.														t
S. Shut-Off (SO) Control (rear panel) By Voltage: 0.6V = Disable, 2-15V = Enable (default) or Dry Contact : Open = ENA, Short = DIS (user-selectable logic)		0~100%,	0~5/10ko	hm full-s	cale, user	-selectabl	e. Accura	cy & Linea	arity ± 1%	of Vo(rate				T
6. Output Current Monitor														Γ
7. Output Voltage Monitor 8. Power Supply OK (PS_OK) Signal 9. CV:C STL High (4 ~ 5V), Max source current 10mA(C): TTL Low (0 ~ 0.4V), Max sink current = 10mA 10. Enable/Disable 10. Proortact; Open = Off, Short = On; Max. voltage across Enable/Disable contacts = 6V 11. Remote/Local Selection Selects Remote or Local operation by voltage: 0 ~ 0.6V = Local / 2 ~ 15V = Remote 12. Remote/Local Signal Signals operating mode; Open collector: Local = Open (Max voltage = 30V), Remote = On (Max sink current = 10mA) 15. FRONT PANEL 1. Control Functions Vout/ lout manual adjust by separate encoders (coarse and fine adjustment selectable) OVP/IVVL manual adjust by Voltage Adjust encoder, Front Panel Lock/Unlock Address selection by Voltage Adjust encoder, Front Panel Lock/Unlock Address selection by Voltage Adjust encoder, Front Panel Lock/Unlock Address selection by Voltage Adjust encoder, Front Panel Lock/Unlock Address selection by Voltage Adjust encoder, Front Panel Lock/Unlock Address selection by Voltage Adjust encoder, Front Panel Lock/Unlock Address selection by Voltage Adjust encoder, Front Panel Lock/Unlock Address selection by Voltage Adjust encoder, Front Panel Lock/Unlock Address selection by Voltage Adjust encoder, Front Panel Lock/Unlock Address selection by Voltage Adjust encoder, Front Panel Lock/Unlock Address selection by Voltage Adjust encoder, Front Panel Lock/Unlock Address selection by Voltage Adjust encoder, Front Panel Lock/Unlock Address selection by Voltage Adjust encoder, Front Panel Lock/Unlock Address selection by Voltage Adjust encoder, Front Panel Lock/Unlock Address selection by Voltage Adjust encoder, Front Panel Lock/Unlock Address selection by Voltage Adjust encoder, Front Panel Lock/Unlock Address selection by Voltage Adjust encoder, Front Panel Lock/Unlock Address selection by Voltage Adjust encoder, Front Panel Lock/Unlock Address selection by Voltage Adjust encoder, Front Panel Lock/Unlock Address selection by Voltage Adjust encoder, Front Panel Lock/Un									ct : Open	= ENA, SI	hort = DIS (user-selec	table logic)	╀
8. Power Supply OK (PS_OK) Signal 9. CV: TTL High = OK, 0V = Fail (500ohm series impedance) 9. CV: C Signal CV: TTL High (4 ~ 5V), Max source current = 10mA, CC: TTL Low (0 ~ 0.4V), Max sink current = 10mA 10. Enable/Disable Dry contact, Open = Off, Short = On; Max, voltage across Enable/Disable contacts = 6V 11. Remote/Local Selection Selects Remote or Local operation by voltage: 0 ~ 0.6V = Local / 2 ~ 15V = Remote 12. Remote/Local Signal Signals operating mode: Open collector: Local = Open (Max voltage = 30V), Remote = On (Max sink current = 10mA) 1. S FRONT PANEL 1. Control Functions Vout/ lout manual adjust by separate encoders (coarse and fine adjustment selectable) OVP/UVL manual adjust by Voltage Adjust encoder, Front Panel Lock/Unlock Address selection by Voltage Adjust encoder, Front Panel Lock/Unlock Address selection Py Voltage Adjust encoder, Front Panel Lock/Unlock Address selection (NS-232/RS-485, IEEE (IEMD) and LAN selection by rear-panel DIP-switch Baud rate selection (RS-232/RS-485 only): 1200, 2400, 4800, 9600 and 19,200 (by current adjust encoder) Advanced Parallel Master/Slave: Hx = Master unit, where x = # of Slave units (0 to 4), Slave = Slave unit(s) 2. Display Voltage: 4 digits, Accuracy: ± 0.5% of Vo(rated) ±1 count Current: 4 digits, Accuracy: ± 0.5% of Vo(rated) ±1 count Voltmeter displays voltage at power supply (Local sense) or at load (Remote sense) 3. Indications Green LEDs: PREVIEW, FOLD, REM/LOCAL, OUT ON/OFF, CV/CC, FINE Red LED: ALRM (OVP, OTP, FOLD, AC FAIL, ENA, SO) 1. 6 DIGITAL PROGRAMMING & READBACK 1. Vout Programming Accuracy ± 0.5% of rated Output voltage 2. Lout Programming Resolution 0.02% of Vo(rated) 4. Lout Programming Resolution 0.02% of Vo(rated) 5. Vout Readback Accuracy ± 0.1% of Vo(actual) + 0.2% of Vo(rated) 6. Lout Readback Accuracy ± 0.1% of Vo(actual) + 0.4% of Vo(rated) 9. OV Response Time 20mS maximum (between Vout exceeding IEEE Limit and supply Inhibit turning On)														╁
9. CV/CC Signal CV: TTL High (4 ~ 5V), Max source current = 10mA; CC: TTL Low (0 ~ 0.4V), Max sink current = 10mA 10. Enable/Disable Dry contact: Open = Off, Short = Or, Max. voltage across Enable/Disable contacts = 6V 11. Remote/Local Selection Selects Remote or Local operation by voltage: 0 ~ 0.6V = Local / 2 ~ 15V = Remote 12. Remote/Local Signal Signals operating mode; Open collector: Local = Open (Max voltage = 30V), Remote = On (Max sink current = 10mA) 1.5 FRONT PANEL 1. Control Functions Vout/ lout manual adjust by separate encoders (coarse and fine adjustment selectable) OVP/UVL manual adjust by Voltage Adjust encoder, Front Panel Lock/Unlock Address selection by Voltage Adjust encoder, # of addresses = 31 AC ON/OFF, Cutput On/Off, Restart Mode (Auto/Sale), Foldback Control (CV to CC), Go-to-Local RS-232/RS-485, IEEE (IEMD) and LAN selection by rear-panel DIP-switch Baud rate selection (RS-232/RS-485 only): 1200, 2400, 4800, 9600 and 19,200 (by current adjust encoder) Advanced Parallel Master/Slave: Hx = distrumit, where x = # of Slave units (0 to 4), Slave = Slave units () Voltage: 4 digits, Accuracy: ± 0.5% of Vo(rated) ±1 count Current: 4 digits, Accuracy: ± 0.5% of Vo(rated) ±1 count Voltmeter displays voltage at power supply (Local sense) or at load (Remote sense) 3. Indications Green LEDs: PREVIEW, FOLD, REM/LOCAL, OUT ON/OFF, CV/CC, FINE Red LED: ALRM (OVP, OTP, FOLD, AC FAIL, ENA, SO) 1. FORTAL PROGRAMMING & READBACK 1. Vout Programming Accuracy ± 0.5% of rated Output voltage 2. Lour Programming Accuracy ± 0.5% of rated Output voltage 2. Lour Programming Resolution 0.02% of Vo(rated) 4. Lour Readback Accuracy ± (0.1% of Vo(actual)) + 0.2% of Vo(rated)) 6. Lour Readback Accuracy ± (0.1% of Vo(actual)) + 0.4% of Vo(rated)) 7. Vout Readback Resolution 9. OV Response Time 20m Smaximum (between Vout exceeding IEEE Limit and supply Inhibit turning On)	<u> </u>								-					t
11. Remote/Local Selection 12. Remote/Local Signal 13. Indications 15. FRONT PANEL 15. FRONT PANEL 16. Control Functions 16. Wout/ lout manual adjust by separate encoders (coarse and fine adjustment selectable) 17. OVP/UVL manual adjust by Voltage Adjust encoder, Front Panel Lock/Unlock 18. Address selection by Voltage Adjust encoder, Front Panel Lock/Unlock 19. Address selection by Voltage Adjust encoder, Front Panel Lock/Unlock 19. Address selection by Voltage Adjust encoder, Front Panel Lock/Unlock 19. Address selection by Voltage Adjust encoder, Front Panel Lock/Unlock 19. Address selection by Voltage Adjust encoder, Front Panel Lock/Unlock 19. Address selection by Voltage Adjust encoder, Front Panel Lock/Unlock 19. Address selection by Voltage Adjust encoder, Front Panel Lock/Unlock 19. Address selection by Voltage Adjust encoder, Front Panel Lock/Unlock 19. Address selection by Voltage Adjust encoder, Front Panel Lock/Unlock 19. Address selection by Voltage Adjust encoder, Front Panel Lock/Unlock 19. Address selection By Voltage Adjust encoder, Front Panel Lock/Unlock 19. Address selection By Voltage Adjust encoder, Front Panel Lock/Unlock 19. Address selection By Voltage Adjust encoder, Front Panel Lock/Unlock 19. Address selection By Voltage Adjust encoder, Front Panel Lock/Unlock 19. Address selection By Voltage Adjust encoder, Front Panel Lock/Unlock 19. Address selection By Voltage Adjust encoder, Front Panel Lock/Unlock 19. Address selection By Voltage Adjust encoder, Front Panel Lock/Unlock 19. Address selection By Voltage Adjust encoder, Front Panel Lock/Unlock 19. Address selection By Voltage Adjust encoder, Front Panel Lock/Unlock 19. Address selection By Voltage Adjust encoder, Front Panel Lock/Unlock 19. Address selection By Voltage Adjust encoder, Front Panel Lock/Unlock 19. Address selection By Voltage Adjust encoder, Front Panel Lock/Unlock 19. Address selection By Voltage Adjust encoder, Front Panel Lock/Unlock 19. Address selection By Voltage Adjust encoder, Front Panel Lock/Unlock 19. A									(0 ~ 0.4V), Max sin	k current =	10mA		
12. Remote/Local Signal Signals operating mode; Open collector: Local = Open (Max voltage = 30V), Remote = On (Max sink current = 10mA) 1.5 FRONT PANEL 1. Control Functions Vout/ lout manual adjust by separate encoders (coarse and fine adjustment selectable) OVP/UVL manual adjust by Voltage Adjust encoder, Front Panel Lock/Unlock Address selection by Voltage Adjust encoder, # of addresses = 31 AC ON/OFF, Output On/Off, Restart Modes (Auto/Safe), Foldback Control (CV to CC), Go-to-Local RS-232/RS-485, IEEE (IEMD) and LAN selection by rear-panel DIP-switch Baud rate selection (RS-232/RS-485 only): 1200, 2400, 4800, 9600 and 19,200 (by current adjust encoder) Advanced Parallel Master/Slave: Hx = Master unit, where x = # of Slave units (0 to 4), Slave = Slave unit(s) 2. Display Voltage: 4 digits, Accuracy: ± 0.5% of lo(rated) ±1 count Current: 4 digits, Accuracy: ± 0.5% of lo(rated) ±1 count Voltmeter displays voltage at power supply (Local sense) or at load (Remote sense) 3. Indications Green LED's: PREVIEW, FOLD, REMLOCAL, OUT ON/OFF, CV/CC, FINE Red LED: ALRM (OVP, OTP, FOLD, AC FAIL, ENA, SO) 1.6 DIGITAL PROGRAMMING & READBACK 1. Out Programming Accuracy ± 0.5% of rated Output voltage 2. Iout Programming Accuracy ± 0.5% of rated Output current for units with lo < 187.5A; ± 0.7% of rated Output current for lo ≥187.5A 3. Vout Programming Resolution 0.02% of Vo(rated) 4. Iout Programming Resolution 0.04% of lo(rated) 5. Vout Readback Accuracy ± 0.1% of Vo(actual) + 0.2% of Vo(rated) 6. Iout Readback Resolution 0.02% of Vo(rated) 9. OV Response Time 20m8 maximum (between Vout exceeding IEEE Limit and supply Inhibit turning On)											SV			Ĺ
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^{*800}V - 1500V models (10kW) only available with 400VA and 480VAC input. For 208VAC Input models please contact the factory.

*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 lo(rated).

*3. From 20% - 100% for models with lor < 17A. All specifications subject to change without notice.

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

2.1 INPUT CHARACTERISTICS		
Input Voltage / Frequency (range)		208VAC (180-253), 400VAC (360-440 , 342-440 (select 10kW/15kW models)), 480VAC (432-528); 47-63Hz (all)
2. No. of phases		3-Phase (Wye or Delta) 4 wire total (3-Phase and 1 protective Earth ground)
3. Dropout Voltage	V	180 / 360, 342 (select models) / 432; select models (10kW): 800V-1500V, select models (15kW): 30V-50V, 800V-1500V
4. Input Current (180VAC/360 or 342VAC/432VAC)	Arms	10kW - 45/23/20 (Vout ≤ 600V); N/A/23/20 (800V ≤ Vout ≤ 1500V) - at full rated Output power 15kW - 64/32/27 (Vout ≤ 600V); N/A/32/27 (800V ≤ Vout ≤ 1500V) - at full rated Output power
5. Inrush Current	Α	Not to exceed full rated Input current (see para. above)
6. Power Facto		0.88 Passive (typical)
7. Leakage Current	mA	3.5 (EN60950) max.
8. Input Protection		208VAC: circuit breaker (Vout ≤ 600V); 400VAC/480VAC (all models) - line fuse
9. Input Overvoltage Protection		Unit shall not be damaged by line overvoltage of 120% nominal AC input voltage with maximum duration of 100usec.
10. Phase Imbalance	%	≤ 5% on Three-Phase Input

2.2 POWER SUPPLY CONFIGURATION

1. Parallel Operation	Up to four (4) identical units may be connected in Master/Slave Mode with single wire connection (*3). In Advanced-Parallel feature, the current of Master unit multiplied by number of units connected in parallel, is available via digital interface and displayed on the front panel display of the Master unit. Remote Analog current monitor of the Master is scaled to the Output current of the Master unit (only).
2. Series Operation	Possible (with external diodes); Up to two identical units with total Output voltage not to exceed ± 600V from Chassis ground (for Vor ≤ 600V); not to exceed ± 1500V from Chassis ground (for 600V < Vor ≤ 1500V).

2.3 ENVIRONMENTAL CONDITIONS

2.3 LIVINONWILLIVIAL CONDITIONS	
Operating Temperature	0 ~ +50°C, 100% load
2. Storage Temperature	-20 ~ +70°C
3. Operating Humidity	20 ~ 80% RH (non-condensing)
4. Storage Humidity	10 ~ 90% RH (non-condensing)
5. Vibration & Shock	ASTM D4169, Standard Practice for Performance Testing of Shipping Containers and Systems, Shipping Unit: Single Package Assurance Level: Level II; Acceptance Criteria: Criterion 1 - No product damage Criterion 2 - Packaging is intact, Distribution Cycle: 12 - Air (intercity) and motor freight (local), unitized is used.
6. Altitude	Operating: +50°C up to 7500 ft. (2500m), +45°C from 7501 to 10,000ft (2501m - 3000m), Non-Operating 40,000 ft (12,000m)
7. Audible Noise	65dBA at lo(rated) (measured 1m from front panel)

2.4 EMC (*4)	
1. 208VAC Input	CE Mark
1. ESD	EN61000-4-2 (IEC 801-2): Air-discharge ± 8kV , Contact-discharge ± 4kV
2. Fast Transients	EN61000-4-4 (IEC 1000-4-3)
3. Surge Immunity	EN61000-4-5 (IEC 1000-4-5)
Conducted Immunity	EN61000-4-6 (IEC 1000-4-6)
5. Radiated Immunity	EN61000-4-3 (IEC 1000-4-3)
6. Power Frequency Magnetic Field	EN61000-4-8
7. Conducted Emissions	EN55011A, FCC part 15J-A
8. Radiated Emissions	EN55011A, FCC part 15J-A
2. 400VAC/480VAC (*4) Input	CE Mark
1. ESD	EN61000-4-2 (IEC 801-2): Air-discharge ± 8kV , Contact-discharge ± 4kV
2. Fast Transients	EN61000-4-4 (IEC 1000-4-3)
3. Surge Immunity	EN61000-4-5 (IEC 1000-4-5)
Conducted Immunity	EN61000-4-6 (IEC 1000-4-6)
5. Radiated Immunity	EN61000-4-3 (IEC 1000-4-3)
6. Power Frequency Magnetic Field	EN61000-4-8
7. Voltage Dips, Short Interruptions and Voltage Variations Immunity Test (400VAC Only).	IEC 61000-4-11
8. Conducted Emissions	EN55011A, FCC part 15J-A
9. Radiated Emissions	EN55011A, FCC part 15J-A

2.5 SAFETY	
1.Applicable Standards:	UL/cUL 60950-1, EN60950-1 recognized, CB Scheme, CE Mark (208VAC & 400VAC inputs only) 7.5V ≤ Vout ≤ 400V: Output is Hazardous; LAN/IEEE/Isolated Analog/USB are SELV 400V < Vout ≤ 600V: Output is Hazardous; LAN/IEEE/Isolated Analog/USB are not SELV 600V < Vout ≤ 1500V: Output is Hazardous; LAN/IEEE/Isolated Analog/USB are SELV
2. Withstand Voltage	Vout ≤ 300V models: Input - Ground: 2900VDC for 1min, Input-Hazardous Output: 3500VDC for 1min, Input - SELV: 2900VDC for 1min Hazardous Output - SELV: 2121VDC for 1min, Hazardous Output - Ground: 2121VDC for 1min, Input-Ground: 2900VDC for 1min, Input-Hazardous Output: 3900VDC for 1min, Input-SELV: 2900VDC for 1min. Hazardous Output - SELV: 2688VDC for 1min, Hazardous Output - Ground: 2688VDC for 1min, Input-Ground: 2900VDC for 1min, Input-Hazardous Output: 5040VDC for 1min, Input-SELV: 2900VDC for 1min. Hazardous Output - SELV: 2500VDC for 1min, Hazardous Output - Ground: 2500VDC for 1min
3.Insulation Resistance	> 100Megohms at 500VDC, +25°C

2.6 MECHANICAL CONSTRUCTION	
1. Cooling	Fan-driven, Airflow from front to rear. Fan speed control on 10kW (800V-1500V models) and 15kW (30V-50V, and 800V-1500V models).
	"Zero Stackable" top and bottom. Vents on side shall not be blocked. Chassis slides or suitable rear support required. EIA rack mounting.
2. Dimensions (W x H x D)	Width: 429mm / 16.9", Height: 3U - 133mm / 5.22", Depth - 564mm / 22.2" (excluding connectors, encoders, handles, etc.)
3. Weight	43kg / 97 lbs (Vout < 600V); 32kg / 70lbs (600V < Vout < 1500V)
4. AC Input connector (with Protective Cover)	3 x M6 x 1" threaded studs (L1, L2, L3 and Chassis GND) and terminal cover.
5.Output Connectors	Up to and including 300V models: bus-bars (one and two-hole). Greater than 300V models: M6 x 0.5" threaded-stud terminals.
6.Control Connectors	Analog Programming: DB25, plastic connector, AMP747461-5, Female on Supply; Male on Mating connector, 747321, 25 pin Sub-D connector.
7. Mounting Method	Standard 19" Rack-Mount, provision for standard chassis slides. Side/Rear Support is required; Do not mount by front panel only.
8. Output Ground Connection	M5 x 1.0" threaded-stud

2.7 WARRANTY	
1. Warranty	5 years

*3 GENESYS™ 30V-50V (15kW) and 800V-1500V (10kW/15kW) mdoels require a Two-Wire Parallel Master-Slave connection. See the Product USer's Manual for details.
*4, 30V-50V (15kW) and 800V-1500V (10kW/15kW) models with 480VAC Input have CE Mark.
All specifications subject to change without notice

