

Improved Specifications

GenesysTM

Programmable DC Power Supplies 2.4kW in 1U Built in RS-232 & RS-485 Interface Advanced Parallel Operation Auxiliary Outputs 5V & 15V

> Optional Interface: LXI Compliant LAN IEEE488.2 SCPI (GPIB) Multi-drop Isolated Analog Programming



Genesys™ Family GenH 750W Half Rack Gen1U 750/1500W Full Rack Gen2U 3.3/5kW

TDK·Lambda



The GenesysTM family of programmable power supplies sets a new standard for flexible, reliable, AC/DC power systems in OEM, Industrial and Laboratory applications.

Features include:

- High Power Density 2.4kW in 1U
- Wide Range of popular worldwide AC inputs, 1ø (230VAC) & 3ø (208VAC)
- Active Power Factor Correction (Single-Phase & Three-Phase AC Input)
- Output Voltage up to 600V, Current up to 300A
- Auxillary Outputs 5V/0.2A; 15V/0.2A for increased system control functionality
- Built-in RS-232/RS-485 Interface Standard
- Global Commands for Serial RS-232/RS-485 Interface
- Auto-Re-Start / Safe-Start: user selectable
- Last-Setting Memory
- High Resolution 16 bit ADCs & DACs
- Low Ripple & Noise
- Front Panel Lock selectable from Front Panel or Software
- Reliable Encoders for Voltage and Current Adjustment

Constant Voltage/Constant Current auto-crossover

Parallel Operation with Active Current Sharing; up to four identical units.

- Advanced Parallel Master / Slave. Total Current is Programmed and Measured via the Master.
- Independent Remote ON/OFF and Remote Enable/Disable
- External Analog Programming and Monitoring (user selectable 0-5V & 0-10V)
- Reliable Modular and SMT Design
- 19" Rack Mount capability for ATE and OEM applications
- Optional Interfaces IEEE 488.2 SCPI (GPIB) Multi-Drop Compliant LAN
- LabView[®] and LabWindows[®] drivers
- Five Year Warranty

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

Applications

GenesysTM power supplies have been designed to meet the demands of a wide variety of applications. System Designers will appreciate new, standard, remote programming features such as Global commands. Also, new high-speed status monitoring is available for the RS-485 bus. Test Systems using the IEEE-488 bus may achieve significant cost savings by incorporating the Optional IEEE Multi-Drop Interface for a Master and up to 30 RS-485 Multi-Drop Slaves. Higher power systems can be configured with up to four 2.4kW modules. Each module is 1U with zero space between them (zero stack). Flexible configuration is provided by the complete GenesysTM Family: 1U 750W Half-Rack, 1U 750W and 1500W

Full-Rack, 2U 3.3kW & 5kW. All are identical in Front Panel, Rear Panel Analog, and all Digital Interface Commands.

A wide variety of outputs allows testing of many different devices.

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



Front Panel Description



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

Rear Panel Description



- 1. Remote/Local Output Voltage Sense Connections.
- 2. DIP Switches select 0-5V or 0-10V Programming and other functions.
- 3. DB25 (Female) connector allows (Non-isolated) Analog Program and Monitor and other functions.
- 4. RS-485 OUT to other Genesys[™] Power Supplies.
- 5. RS-232/RS-485 IN Remote Serial Programming.
- 6. Output Connections: Rugged busbars (shown) for up to 100V Output; wire clamp connector for Outputs >100V.
- 7. Exit air assures reliable operation when zero stacked.
- 8. Input: 230VAC Single Phase (shown), 208 VAC Three Phase, 50/60 Hz AC Input Connector: Phoenix P/N: FRONT-4-H-7
- 9. Optional Interface Position for IEEE 488.2 SCPI (shown) or Isolated Analog Interface or LAN Interface.
- 10. Auxiliary Output Voltage Connector. Phoenix P/N: IMC1.5/7-ST-3.81



Genesys [™] 2.4kW Specifications

		0 200	10 242	10 100	20.120	20.00	40.00	60.40				lue are ir	
voltage(*1) 2.Rated Output Current(*2 3.Rated Output Power 1.1 CONSTAN		8-300 8	10-240 10	16-150 16	20-120 20	30-80 30	<u>40-60</u> 40	60-40 60	80-30 80	100-24 100	150-16 150	300-8 300	600-4 600
/OLTAGE MODE 1.Max.line regulation		300	240	150	120	80	60	40	30	24	16	8	4
).01% of rated Vo+ 2mV)(*6) 2Max load equlation (0.015% of rated Vo+5mV)(*7	1 W) mV	2400 2.8	2400 3	2400 3.5	2400 4	2400 5	2400 6	2400 8	2400 10	2400 12	2400 17	2400 32	2400 62
.Ripple and noise p-p 20MHz (*8) 4.Ripple	mV	6.2	6.5	7.25	8	9.5	11	14	17	20	27.5	50	95
m.s 5Hz~1MHz 5.Remote sense compensation/wire 6.Temp coefficien		50	50	50	50	55	55	60	60	70	90	150	240
.Temp. stability 8.Warm-up drift 9.Up-prog		6 2	6 2	6	<u>6</u> 2	<u>6</u> 5	6 5	6 5	7		20 5	45 5	<u>60</u> 5
esponse time, Ó~Vo Rated (*9)	· v	2	2	2	2	J			,		,		
	DDM/%C		C of roto	d output	ialtaga fi	llowing	20 minut						
	PPINI/ C	0.01% of	rated Vo	d output v out over 8	hrs interv	al follow	ing 30 m	inutes warm	-up arm-up C	onstant l	ine. load	& temp	
		Less than	n 0.05% (of rated o	utput vol	tage+2m	V over 30) minutes	following	g power	On.	a tempi	
	mS			15		_	20	30	40	40	60	80	100
0.Down-prog response Full-load (*9)	mS	10	10	20	20	20	20	30	50	50	80	100	100
ime No-load (*10)	mS	500	500	500	500	600	700	1100	1200	1500	2500	3000	3000
1.Transient response time	mS		•	oltage to									
		set-poin	t: 10-100	%, local s	ense. Les	s than 1r	nSec for	models u	p to and	including	g 100V. 2	msec for	models
.2 CONSTANT CURRENT MODE	mA	32	26	17	14	10	8	6	5	4.4	3.6	2.8	2.4
Max.line regulation (0.01% of rated lo+2mA) Max.load regulation (0.02% of rated lo+5mA)	$(^{*}6)_{V*}$ mA	65	53	35	29	21	17	13	11	9.8	8.2	6.6	5.8
Ripple r.m.s 5Hz~1MHz . (*12)	ካ mA	700	500	400	250	150	90	60	40	30	12	10	5
Load regulation thermal drift	DDA4/9C			f rated ou						change.			
.Temp. coefficient	PPINI/ C			ited outp ut over 8						onstant	line load	& tompo	raturo
.Temp. stability													fature.
.Warm-up drift		8V~20V	models:	Less than Is:Less th It Current	$\pm 0.5\% 0^{\circ}$	rated ou	itput cur	rent over	30 minu	tes tollov	ving pow	er On.	n
.3 PROTECTIVE FUNCTIONS		0≈105%	Collstan	it Cuirieht	un ±0.25		a output			and test	Showing	power O	
OCP OCP Foldback		Output s	shut-dow	vn when p wn, manu	ower sup	oply char	ige from	e or hy O	. User sel UT hutto	ectable. h or by c	ommuni	ation no	rt comm
. OCP Foldback . OVP type		er	shar uo	, manu	arresett	,np	acrecycr		S. Sullo		ennum	Lation po	
. OVP trip point		0.5~101/	0.5~1.2	1~18V	1~241/	2~261/	2~111	5~661/	5~22\/	5~1101/	5~1651	5~2201/	5~660
Output Under Voltage Limit				anel or co								5-5500	J 0000
. Over Temp. Protection .4 ANALOG PROGRAMMING AND MONITO	RING			latched o					Jasting				
.Vout Voltage Programming	ning	0~100%	0~5V o	r 0~10V, ι	iser selec	t. Accura	cy and li	hearity:+() 5% of ra	ted Vout	t.		
lout Voltage Programming (*13)		0~100%	. 0~5V oi	∙0~10V, u	ser selec	t. Accura	v and lir	nearity:±1	% of rate	d lout.			
Vout Resistor Programming		0~100%	, 0~5/10	Kohm full	scale,use	er select.,	Áccuracy	<u>and line</u>	arity: ±1%	6 of rated	d Vout.		
.lout Resistor Programming (*13) .On/Off control (rear panel)		0~100%	, 0~5/10	Kohm full	scale, use	er select.	Accuracy	and line	arity:±1.5	% of rate	ed lout.		
.Output Current monitor (*13)		0~5V or	$\frac{1}{0} \sim 10V$	age: 0~0. Accuracy:	+1% use	v,or ury c	ble	iser selec	table log	IC.			
.Output Voltage monitor		0~5V or	0~10V,A	Accuracy:	E1% ,user	selectab	le.						
Power Supply OK signal		TTL high	ı (4~5V) ∙	-OK, 0V-Fa	ail 500oh	m series I	resistanc						
. CV/CC Indicator 0. Enable/Disable				C mode:							sink curre	nt: 10mA	
1. Local/Remote analog control		By electr	ical sign	n:off , Sho al or Opei	ort: on. M o/Short· (ax. voltage	short R	mote 2	15V or o	nen·loc	al		
2. Local/Remote analog control Indicator		Open co	llector. L	aradjust t	Remote:	On. Maxi	mum yo	Itage: 30	/_maximi	im sink o	urrent: 1	0mA.	
.5 FRONT PANEL		vout/ ioi	и папи	ai dujust'î	y separa	re encog	ers (coar	se and fli	ie aujusti	nent sel	ectable).		
		OVP/UVI	_ manua	adiust b	/ Volt. Ad	just enco	der.						
JINONI FANLL			_ manua	l adjust by n/off, Re-				oldback c	ontrol (C	√ to CC),	Go to loc	al contro	ot.
		On/Off, (Address	- manua Output o selectio	n/off, Re-	start moo ge (or cu	des (auto rrent) ad	, safe), Fo just enco					al contro	ot.
		On/Off, (Address Re-start	L manua Output o selection modes (a	n/off, Re- h by Volta automatio	start moo ge (or cu restart,	des (auto rrent) ad safe mod	, safe), Fo just enco e).	oder. Nun				al contro	ot.
		On/Off, (Address Re-start Baud rat	- manua Output o selection modes (a e selecti	n/off, Re- h by Volta automatio on: 1200,	start moo ge (or cu restart, 2400,480	des (auto rrent) ad safe mod 0,9600 ar	, safe), Fo just enco e). nd 19,200	oder. Nun D.	nber of ac			al contro	bl.
		On/Off, (Address Re-start Baud rat Voltage:	- manua Output o selection modes (a e selecti 4 digits	n/off, Re- n by Volta automatic on: 1200, , Accuracy	start moo ge (or cu restart, 2400,480 /: 0.05% (des (auto rrent) ad safe mod 0,9600 ar of rated c	, safe), Fo just enco e). nd 19,200 output Vo	oder. Nun). oltage ±1	count.			al contro	bl.
		On/Off, (Address Re-start Baud rat Voltage: Current:	- manua Output o selection modes (i e selecti 4 digits 4 digits,	n/off, Re- n by Volta automatic on: 1200, , Accuracy Accuracy	start mod ge (or cu restart, 2400,480 y: 0.05% of : 0.2% of	des (auto rrent) ad safe mod 0,9600 ar of rated ou rated ou	, safe), Fo just enco e). nd 19,200 putput Vo put curr	oder. Nun). oltage ±1 ent ±1 cc	count.	ldresses:	31.		bl.
Control functions		On/Off, (Address Re-start Baud rat Voltage: Current:	- manua Output o selection modes (i e selecti 4 digits 4 digits,	n/off, Re- n by Volta automatic on: 1200, , Accuracy	start mod ge (or cu restart, 2400,480 y: 0.05% of : 0.2% of	des (auto rrent) ad safe mod 0,9600 ar of rated ou rated ou	, safe), Fo just enco e). nd 19,200 putput Vo put curr	oder. Nun). oltage ±1 ent ±1 cc	count.	ldresses:	31.		5 1 .
Control functions		On/Off, (Address Re-start Baud rat Voltage: Current:	- manua Output o selection modes (i e selecti 4 digits 4 digits,	n/off, Re- n by Volta automatic on: 1200, , Accuracy Accuracy	start mod ge (or cu restart, 2400,480 y: 0.05% of : 0.2% of	des (auto rrent) ad safe mod 0,9600 ar of rated ou rated ou	, safe), Fo just enco e). nd 19,200 putput Vo put curr	oder. Nun). oltage ±1 ent ±1 cc	count.	ldresses:	31.		bl.
Control functions Display		On/Off, (Address Re-start Baud rat Voltage: Current:	- manua Output o selection modes (i e selecti 4 digits 4 digits,	n/off, Re- n by Volta automatic on: 1200, , Accuracy Accuracy	start mod ge (or cu restart, 2400,480 y: 0.05% of : 0.2% of	des (auto rrent) ad safe mod 0,9600 ar of rated ou rated ou	, safe), Fo just enco e). nd 19,200 putput Vo put curr	oder. Nun). oltage ±1 ent ±1 cc	count.	ldresses:	31.		bl.
.Control functions 2.Display 5.Indications	S Series v	On/Off, C Address Re-start Baud rat Voltage: Voltage,	a manua Dutput o selection modes (i e selecti 4 digits 4 digits, Current,	n/off, Re- n by Volta automatic on: 1200, , Accuracy Accuracy , Alarm, Fi	start moo ge (or cu restart, 2400,480 y: 0.05% of ne, Previ	des (auto rrent) ad safe mod 0,9600 ar of rated ou rated ou ew, Foldl	, safe), Fo just encc e). ad 19,200 butput Vo tput curr back, Loc	oder. Nun D. Ditage ±1 ent ±1 cc rai, Outpu	count. ount. It On, Fro	ldresses:	31.		i.
.Control functions .Display .Indications .6 Interface Specifications for the GENESY:	S Series V	On/Off, C Address Re-start Baud rat Voltage: Voltage,	a manua Dutput o selection modes (i e selecti 4 digits 4 digits, Current,	n/off, Re- n by Volta automatic on: 1200, , Accuracy Accuracy , Alarm, Fi	start moo ge (or cu restart, 2400,480 y: 0.05% of ne, Previ	des (auto rrent) ad safe mod 0,9600 ar of rated ou rated ou ew, Foldl	, safe), Fo just encc e). ad 19,200 butput Vo tput curr back, Loc	oder. Nun D. Ditage ±1 ent ±1 cc rai, Outpu	count. ount. It On, Fro	ldresses:	31.		il. 600
.Control functions .Display .Indications .6 Interface Specifications for the GENESY .Remote Voltage Programming (16 bit) esolution (0.002% of Vo Rated)	V mV	On/Off, C Address Re-start Baud rat Voltage: Current: Voltage, with RS-2 8 0.16	manua Dutput o selection modes (e e selecti 4 digits 4 digits, Current, 232/RS-4 10 0.2	n/off, Re- h by Volta automatic on: 1200,: , Accuracy Accuracy Alarm, Fi 	start mod ge (or cu restart, 2400,480 y: 0.05% of ne, Previ tional Gl 20 0.4	des (auto rrent) ad safe mod 0,9600 ar of rated ou rated ou ew, Foldt PIB/LAN 30 0.6	, safe), Fc just encc e). nd 19,200 nutput Vo put curr back, Loc Interface 40 0.8	oder. Nun Ditage ±1 ent ±1 cc al, Outpu e Installe 60 1.2	count. ount. It On, Fro d 80 1.6	Idresses: nt Panel 100 2	31. Lock, CV	CC. 300 6	600 12
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.Control functions .Display .Indications .6 Interface Specifications for the GENESY: .Remote Voltage Programming (16 bit) esolution (0.002% of Vo Rated) .ccuracy (0.05% of Vo Rated) (*14) .Remote Current Programming (16 bit)	V mV	On/Off, C Address Re-start Baud rat Voltage: Current: Voltage, with RS-2 8 0.16	manua Dutput c selection modes (e selecti 4 digits 4 digits, Current, 232/RS-4 10 0.2 5	n/off, Re- 1 by Volta automatic on: 1200, , Accuracy Alarm, Fi 85 Or Op 15 0.3 8	start mod ge (or cu restart, 2400,480 ;: 0.05% of : 0.2% of ne, Previ tional Gl 20 0.4 10	tes (auto rrent) ad safe mod 0,9600 ar of rated curated our ew, Foldl PIB/LAN 30 0.6 15	safe), Fo just enco e). ad 19,200 output Vo put curr pack, Loc Interface 40 0.8 20	oder. Nun Ditage ±1 ent ±1 cc al, Outpu e Installe 60 1.2 30	count. bount. bount. it On, Fro d 80 1.6 40	1dresses: nt Panel 100 2 50	31. Lock, CV 150 3 75	300 6 150	600 12 300
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Control functions Display Indications 6 Interface Specifications for the GENESY: Remote Voltage Programming (16 bit) esolution (0.002% of Vo Rated) ccuracy (0.05% of Vo Rated) (*14) Remote Current Programming (16 bit) esolution (0.002% of Io Rated) ccuracy (0.2% of Io Rated) (16 of Io Actual ccuracy (0.2% of Io Rated) esolution (% of Vo Rated) esolution (% ed Vo Rated) esolution (Readback Voltage)	V mV MV Đư tpựt) (%	On/Off, C Address Re-start Baud rat Voltage: Current: Voltage, vith RS-2 8 0.16 4 1300 0.002	manua Dutput c selection a selection 4 digits 4 digits, Current, 232/RS-4 10 0.2 5 4.80 720 0.011	n/off, Re- h by Volta automatic on: 1200,: , Accuracy Alarm, Fi 85 Or Op 15 0.3 8 3.00 450 0.007	start mod ge (or cu restart, 2400,480 /: 0.2% of ne, Previ tional Gl 20 0.4 10 2.40 360	tes (auto rrent) ad safe mod 0,9600 ar of rated co rated our ew, Foldl PIB/LAN 30 0.6 15 1.60 240 0.004	, safe), Fo just encc e)- ad 19,200 output Vo put curr back, Loc dinterface 40 0.8 20 1.20 1.80 0.003	oder. Nun D. Ditage ±1 ent±1 cc al, Outpu e Installe 60 1.2 30 0.80 120 0.002	abbrevent count. punt. ut On, Fro d 80 1.6 40 0.60 90 0.002	100 2 50 0.48 72 0.011	31. tock, C∀ 150 3 75 0.32 48 0.007	CC. 300 6 150 0.16 24 0.004	600 12 300 0.08 12
Control functions Display Indications 6 Interface Specifications for the GENESY: Remote Voltage Programming (16 bit) esolution (0.002% of Vo Rated) ccuracy (0.05% of Vo Rated) (*14) Remote Current Programming (16 bit) esolution (0.002% of Io Rated) (*14) ccuracy (0.2% of Io Rated) (*14) ccuracy (*	V mV MV Dut<u>m</u>yt) (% mV	On/Off, C Address Re-start Baud rat Voltage: Current: Voltage, vith RS-2 8 0.16 4 4 6 (13)000 0.002 0.16		n/off, Re- 1 by Volta automatic automatic Accuracy Accuracy Alarm, Fi 85 Or Op 15 0.3 8 3.00 450 0.007 1.05	start mod ge (or cu -restart, 2400,480 /: 0.05% of : 0.2% of ne, Previ tional Gl 20 0.4 10 2.40 360 0.006 1.20	tes (auto rrent) ad safe mod 0,9600 ar of rated cu rated ou ew, Foldt PIB/LAN 30 0.6 1.5 1.60 240 0.004 1.20	, safe), Fo just encc e)- nd 19,200 utput Vo put curr back, Loc interface 40 0.8 20 1.20 180 0.003 1.20	oder. Nun Ditage ±1 ent ±1 ccc. al, Outpu e Installe 60 1.2 30 1.20 0.80 1.20 0.002 1.20	nber of ac count. bunt. it On, Fro d 80 1.6 40 90 90 0.002 1.60	100 2 50 0.48 72 0.011 11.00	31. Lock, CV 150 3 75 0.32 48 0.007 10.50	300 6 150 0.16 24 0.004 12.00	600 12 300 0.08 12 0.002 12.00
Control functions Display Indications 6 Interface Specifications for the GENESY: Remote Voltage Programming (16 bit) esolution (0.002% of Vo Rated) ccuracy (0.05% of Vo Rated) (*14) Remote Current Programming (16 bit) esolution (0.002% of Io Rated) ccuracy (0.2% of Io Rated) esolution (Readback Voltage) esolution (Readback Voltage) ccuracy (0.05% of Vo Rated)	V mV MV Đư tpựt) (%	On/Off, C Address Re-start Baud rat Voltage: Current: Voltage, vith RS-2 8 0.16 4 1300 0.002	manua Dutput c selection a selection 4 digits 4 digits, Current, 232/RS-4 10 0.2 5 4.80 720 0.011	n/off, Re- h by Volta automatic on: 1200,: , Accuracy Alarm, Fi 85 Or Op 15 0.3 8 3.00 450 0.007	start mod ge (or cu restart, 2400,480 /: 0.2% of ne, Previ tional Gl 20 0.4 10 2.40 360	tes (auto rrent) ad safe mod 0,9600 ar of rated co rated our ew, Foldl PIB/LAN 30 0.6 15 1.60 240 0.004	, safe), Fo just encc e)- ad 19,200 output Vo put curr back, Loc dinterface 40 0.8 20 1.20 1.80 0.003	oder. Nun D. Ditage ±1 ent±1 cc al, Outpu e Installe 60 1.2 30 0.80 120 0.002	abbrevent count. punt. ut On, Fro d 80 1.6 40 0.60 90 0.002	100 2 50 0.48 72 0.011	31. tock, C∀ 150 3 75 0.32 48 0.007	CC. 300 6 150 0.16 24 0.004	600 12 300 0.08 12
Control functions Display Indications 6 Interface Specifications for the GENESY: Remote Voltage Programming (16 bit) esolution (0.002% of Vo Rated) ccuracy (0.05% of Vo Rated) (*14) Remote Current Programming (16 bit) esolution (0.002% of Io Rated) eccuracy (0.2% of Io Rated+0.1% of Io Actual- Readback Voltage esolution (% of Vo Rated) esolution (% of Vo Rated) esolution (% of Vo Rated) eccuracy (0.05% of Vo Rated) ccuracy (0.05% of Vo Rated) Readback Current	V mV mV Dutmyt) (% mV mV	On/Off, C Address Re-start Baud rat Voltage: Current: Voltage, vith RS-2 8 0.16 4 4 4 4 0.002 0.16 4	_manua Dutput o selection 4 digits 4 digits; Current; 232/RS-4 10 0.2 5 4.80 720 0.011 1.10 5	n/off, Re- n by Volta automatic on: 1200, , Accuracy Accuracy Accuracy 15 0.3 85 Or Op 15 0.3 8 3.00 450 0.007 1.05 8	start mod ge (or cu -restart, 2400,480 ;: 0.05% 6 : 0.2% of ne, Previ tional Gl 20 0.4 10 2.40 360 0.006 1.20 10	tes (auto rrent) ad safe mod 0,9600 ar of rated our ew, Foldl PIB/LAN 30 0.6 15 1.60 240 0.004 1.20 15	safe), Fo just encc e)- nd 19,200 output Vo put curr back, Loc 40 0.8 20 1.20 180 0.003 1.20 20	oder. Nun 0. bltage ±1 ent ±1 cc. cal, Outpu e Installe 60 1.2 30 0.80 120 0.002 1.20 30	abber of ac count. bunt. tt On, Fro d 80 1.6 40 0.600 90 0.0002 1.60 40	1000 2 50 0.48 72 0.011 11.00 50	31. Lock, CV 150 3 75 0.32 48 0.007 10.50 75	300 6 150 0.16 24 0.004 12.00 150	600 12 300 0.08 12 0.002 12.00 300
Control functions Display Indications .6 Interface Specifications for the GENESY : Remote Voltage Programming (16 bit) esolution (0.002% of Vo Rated) ccuracy (0.2% of Vo Rated) (*14) Remote Current Programming (16 bit) esolution (0.002% of Io Rated+0.1% of Io Actual+ ccuracy (0.2% of Io Rated+0.1% of Io Actual+ Readback Voltage esolution (% of Vo Rated) esolution (% of Vo Rated) ccuracy (0.05% of Vo Rated) . Readback Current esolution (% of Io Rated+0.1%) . Readback Current esolution (% of Io Rated) esolution (% of Io Rated) esolution (% of Io Rated) esolution (% of Io Rated) esolution (% of Io Rated)	V mV mV Dut<u>my</u>t) (% mV mV	On/Off, C Address Re-start- Baud rat Voltage: Current: Voltage, vith RS-2 8 0.16 4 0.002 0.16 4 0.002 0.16 4 0.004	manua Dutput o selection modes (i e selectii 4 digits 4 digits; Current, 232/RS-4 10 0.2 5 4.80 720 0.011 1.10 5 0.005	n/off, Re- h by Volta automatic on: 1200,: , Accuracy Accuracy Alarm, Fi 85 Or Opp 15 0.3 8 3.00 450 0.007 1.05 8 0.007	start mod ge (or cu -restart, 2400,480 /: 0.05% (: 0.2% of ne, Previ tional Gl 20 0.4 0.4 10 2.40 360 0.006 1.20 10	tes (auto rrent) ad safe mod 0,9600 ar of rated co rated ou ew, Foldt PIB/LAN 30 0.6 15 1.60 240 0.004 1.20 15 0.002	safe), Fo just encc e)- ad 19,200 output Vo put curr back, Loc linterface 40 0.8 20 1.20 1.80 0.003 1.20 20 0.002	oder. Nun Ditage ±1 ent±1 cccal, Output e Installee 60 1.2 30 0.80 120 0.002 1.20 0.003	abber of ac count. bunt.	100 2 50 0.48 72 0.011 11.00 50 0.005	31. Lock, CV 150 3 75 0.32 48 0.007 10.50 75 0.007	CC. 300 6 150 0.16 24 0.004 12.00 150 0.002	600 12 300 0.08 12 0.002 12.00 300
Control functions Display Indications 6 Interface Specifications for the GENESY : Remote Voltage Programming (16 bit) esolution (0.002% of Vo Rated) ccuracy (0.05% of Vo Rated) (*14) Remote Current Programming (16 bit) esolution (0.002% of Io Rated+0.1% of Io Actual- ccuracy (0.2% of Io Rated+0.1% of Io Actual- esolution (% of Vo Rated) esolution (% of Vo Rated) esolution (Readback Voltage) ccuracy (0.05% of Vo Rated) Readback Current esolution (% of Io Rated-) esolution (% of Io Rated-)	V mV DutmA DutmA (MV mV mV mV	On/Off, C Address Re-start Baud rat Voltage: Current: Voltage, vith RS-2 8 0.16 4 4 0.06 4 0.002 0.16 4 0.002 0.16 4	-manua Dutput o selection modes (e selectii 4 digits 4 digits 7 d	n/off, Re- 1 by Volta automatic automatic n: 1200,: , Accuracy Alarm, Fi 85 Or Op 15 0.3 8 3.00 450 0.007 1.05 8 0.007 10.5	start mod ge (or cu -restart, 2400,480 /: 0.2% of ne, Previ tional Gl 20 0.4 10 2.40 360 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.2	tes (auto rrent) ad safe mod 0,9600 ar of rated cur rated our ew, Foldl PIB/LAN 30 0.6 15 1.60 240 0.004 1.20 15 0.002 1.6	safe), Fo just encc e)- ad 19,200 utput Vo put curr back, Loc ence 40 0.88 20 1.20 1.20 1.20 0.003 1.20 20 0.002 1.2	oder. Nun bitage ±1 ent ±1 cc: cal, Outpu e Installe 60 1.2 30 0.80 120 0.002 1.20 30 0.002 1.20 30	nber of ac count. punt. at On, Fro d 80 1.6 40 90 0.002 1.60 40 0.002 1.60 40 0.002	100 2 50 0.48 72 0.011 11.00 50 0.005 1.2	31. Lock, CV 150 3 75 0.32 48 0.007 10.50 75 0.007 1.120	300 6 150 0.16 24 0.004 12.00 150 0.002 0.160	600 12 300 0.08 12 0.002 12.00 300 0.003 0.120
Control functions Display Indications 6 Interface Specifications for the GENESY: Remote Voltage Programming (16 bit) esolution (0.002% of Vo Rated) ccuracy (0.05% of Vo Rated) (*14) Remote Current Programming (16 bit) esolution (0.002% of Io Rated+0.1% of Io Actual- readback Voltage esolution (% of Vo Rated) esolution (% of Vo Rated) Readback Current esolution (% of Io Rated+) esolution (% of Io Rated+)	V mV mV Dut<u>my</u>t) (% mV mV	On/Off, C Address Re-start- Baud rat Voltage: Current: Voltage, vith RS-2 8 0.16 4 0.002 0.16 4 0.002 0.16 4 0.004	manua Dutput o selection modes (i e selectii 4 digits 4 digits; Current, 232/RS-4 10 0.2 5 4.80 720 0.011 1.10 5 0.005	n/off, Re- h by Volta automatic on: 1200,: , Accuracy Accuracy Alarm, Fi 85 Or Opp 15 0.3 8 3.00 450 0.007 1.05 8 0.007	start mod ge (or cu -restart, 2400,480 /: 0.05% (: 0.2% of ne, Previ tional Gl 20 0.4 0.4 10 2.40 360 0.006 1.20 10	tes (auto rrent) ad safe mod 0,9600 ar of rated co rated ou ew, Foldt PIB/LAN 30 0.6 15 1.60 240 0.004 1.20 15 0.002	safe), Fo just encc e)- ad 19,200 output Vo put curr back, Loc linterface 40 0.8 20 1.20 1.80 0.003 1.20 20 0.002	oder. Nun Ditage ±1 ent±1 cccal, Output e Installee 60 1.2 30 0.80 120 0.002 1.20 0.003	abber of ac count. bunt.	100 2 50 0.48 72 0.011 11.00 50 0.005	31. Lock, CV 150 3 75 0.32 48 0.007 10.50 75 0.007	CC. 300 6 150 0.16 24 0.004 12.00 150 0.002	600 12 300 0.08 12 0.002 12.00 300
Control functions Display Indications 6 Interface Specifications for the GENESY: Remote Voltage Programming (16 bit) esolution (0.002% of Vo Rated) ccuracy (0.05% of Vo Rated) (*14) Remote Current Programming (16 bit) esolution (0.002% of Io Rated+ 0.1% of Io Actual+ readback Voltage esolution (% of Vo Rated) esolution (% of Vo Rated) esolution (% of Vo Rated) esolution (% of Io Rated+ 0.1% esolution (% of Io Rated) esolution (% of Io Rated) esolution (Readback Current ccuracy (0.3% of Io Rated) (*13) every (0.3% of Io Rated) (*13) every (0.3% of Io Rated) (*13)	V mV mV Dutmyt) (% mV mV mV mA mA	On/Off, C Address Re-start Baud rat Voltage: Current: Voltage, vith RS-2 8 0.16 4 0.16 4 0.002 0.16 4 0.002 0.16 4 0.002 0.16 4	- manua Dutput o selection modes (; e selectii 4 digits 4 digits; Current; 232/RS-4 10 0.2 5 5 4.80 720 0.011 1.10 5 0.005 12 720	n/off, Re- 1 by Volta automatic automatic Accuracy Accuracy Alarm, Fi 85 Or Op 15 0.3 8 3.00 450 0.007 1.05 8 0.007 1.05 450	start mod ge (or cu -restart, 2400,480 /: 0.05% of : 0.2% of ne, Previ tional Gl 20 0.4 	Pies (auto rrent) ad safe mod 0,9600 ar of rated cu rated ou ew, Foldl PIB/LAN 30 0.6 15 1.60 240 0.004 1.20 15 0.002 1.5 240	safe), Fo just enco e)- ad 19,200 utput Vo put curro back, Loco interface 40 0.8 20 1.20 1.20 1.20 0.003 1.20 20 0.002 1.2 1.2	oder. Nun Ditage ±1 ent ±1 cc. al, Outpu e Installe 60 1.2 30 0.80 120 0.002 1.20 30 0.002 1.20 30	nber of ac count. bunt. it On, Fro d 80 1.6 40 90 90 0.002 1.60 40 0.002 1.60 40 0.002 1.60 40	100 2 50 0.48 72 0.011 11.00 50 0.005 1.2 72	31. Lock, CV 150 3 75 0.32 48 0.007 10.50 75 0.007 1.120 48	300 6 150 1.16 24 0.004 0.002 0.160 24 0.002	600 12 300 0.08 12 0.002 12.00 300 0.003 0.120 12
.Control functions .Display .Indications .6 Interface Specifications for the GENESY: .Remote Voltage Programming (16 bit) esolution (0.002% of Vo Rated) .ccuracy (0.05% of Vo Rated) .ccuracy (0.2% of Io Rated) (*14) .Remote Current Programming (16 bit) esolution (0.002% of Io Rated) .ccuracy (0.2% of Io Rated) .Readback Voltage esolution (% of Vo Rated) .Readback Voltage esolution (% of Io Rated) .ccuracy (0.05% of Vo Rated) .Readback Current esolution (% of Io Rated) .ccuracy (0.3% of Io Rated) .ccuracy (0.3% of Io Rated) .ccuracy (0.3% of Io Rated) .cov/V/UVL Programming esolution (0.1% of Vo Rated)	V mV mV 	On/Off, C Address Re-start- Baud rat Voltage: Current: Voltage, vith RS-2 8 0.16 4 0.002 0.16 4 0.002 0.16 4 0.004 12 900 8	manua Dutput o selection modes (e selectii 4 digits 4 digits, Current, 232/RS-4 10 0.2 5 4.80 720 0.011 1.10 5 0.005 12 720 10	n/off, Re- h by Volta automatic on: 1200,: Accuracy Accuracy Accuracy Accuracy 15 0.3 8 3.00 450 0.007 1.05 8 8 0.007 1.5 450 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	start mod ge (or cu -restart, 2400,480 ;: 0.05% (: 0.2% of ne, Previ tional Gl 20 0.4 TU 2.40 360 0.006 1.20 TU 0.009 TU.8 360 20	tes (auto rrent) ad safe mod 0,9600 ar of rated c rated ou ew, Foldt PIB/LAN 30 0.6 15 1.60 240 0.004 1.5 0.002 1.6 240 30	safe), Fo just encc e)- ad 19,200 utput Vo put curr back, Loc 40 0.8 20 1.20 1.20 1.20 0.003 1.20 20 0.002 1.2 180	oder. Nun Ditage ±1 ent±1 cc. al, Outpu e Installe 60 1.2 30 0.80 120 0.002 1.20 30 0.003 1.2 20 60 60	nber of ac count. bunt. it On, Fro d 80 1.6 40 0.60 90 0.002 1.60 40 0.002 1.60 40 0.002 1.60 80	100 2 50 0.48 72 0.011 11.00 50 0.005 1.2 72 100	31. Lock, CV 150 3 75 0.32 48 0.007 10.50 75 0.007 1.120 48 150	CC. 300 6 150 0.16 24 0.004 12.00 150 0.002 0.160 24 300	600 12 300 0.08 12 12.00 300 0.003 0.120 12 12 0 0.003 0.120 12 12 0 0.003 0.120 12 12 0 0.003 0.120 12 12 0.003 0.12 0.003 0.12 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.003 0.002 0.000 0.002 0.00000000
.Control functions .Display .Indications .6 Interface Specifications for the GENESY: . Remote Voltage Programming (16 bit) lesolution (0.002% of Vo Rated) . Remote Current Programming (16 bit) tesolution (0.002% of Vo Rated) . Readback Voltage lesolution (0.002% of Io Rated) . Readback Voltage lesolution (% of Vo Rated) . Readback Voltage lesolution (% of Vo Rated) . Readback Current lesolution (% of Io Rated) . Readback Current lesolution (% of Io Rated) . Readback Current . Curracy (0.3% of Io Rated) . Curracy (0.1% of Vo Rated) . Curracy (1% of Vo Rate	V mV mV 	On/Off, C Address Re-start Baud rat Voltage: Current: Voltage, vith RS-2 8 0.16 4 0.002 0.16 4 0.002 0.16 4 0.002 0.16 4 8 0.004 12 900	manua Dutput o selection ades (e e selectii 4 digits 4 digits, Current, 232/RS-4 10 0.2 5 4.80 720 0.011 1.10 5 0.005 12 720 10 100	n/off, Re- 1 by Volta automatic automatic Accuracy Accuracy Alarm, Fi 85 Or Op 15 0.3 8 3.00 450 0.007 1.05 8 0.007 1.05 450	start mod ge (or cu -restart, 2400,480 ;: 0.05% (: 0.2% of ne, Previ tional Gl 20 0.4 TU 2.40 360 0.006 1.20 T0 0.009 T0.8 360 20 20 200	tes (auto rrent) ad safe mod 0,9600 ar of rated c rated ou ew, Foldt PIB/LAN 30 0.6 15 1.60 240 0.004 1.5 0.002 1.6 240 30 300	safe), Fo just encc e)- ad 19,200 utput Vo put curr back, Loc (Interface 40 0.8 20 1.20 1.20 1.20 0.003 1.20 20 0.002 1.2 180 40 40	oder. Nun 0. bltage ±1 ent ±1 cc. cal, Outpu e Installee 60 1.2 30 0.80 120 0.002 1.20 30 0.003 1.2 20 60 60 60 60 60 60	abber of ac count. bunt. tt On, Fro d 80 1.6 40 0.600 90 0.0002 1.60 40 0.0004 1.2 90 80 80 800	100 2 50 0.48 72 0.011 11.00 50 0.005 1.2 72	31. Lock, CV 150 3 75 0.32 48 0.007 10.50 75 0.007 1.120 48	300 6 150 1.16 24 0.004 0.002 0.160 24 0.002	600 12 300 0.08 12 0.002 12.00 300 0.003 0.120 12
2.Display 2.Display 3.Indications 1.6 Interface Specifications for the GENESY: 1. Remote Voltage Programming (16 bit) resolution (0.002% of Vo Rated) Accuracy (0.005% of Vo Rated) Accuracy (0.002% of Io Rated) Accuracy (0.2% of Io Rated+0.1% of Io Actual- 3. Readback Voltage Resolution (% of Vo Rated) Accuracy (0.05% of Vo Rated) 4. Readback Voltage Resolution (Readback Voltage) Accuracy (0.05% of Vo Rated) 1. Readback Current Resolution (Readback Current) Accuracy (0.3% of Io Rated) 1. Readback Current Resolution (Readback Current) Accuracy (0.3% of Io Rated) 5. OVP/UVL Programming Resolution (0.1% of Vo Rated) Accuracy (1% of Vo Rated) 1. Minimum voltage is guaranteed to maximum 0	V mV mV Dutmy() (% mV mV % mA mA mA mA mA .2% of rate	On/Off, C Address Re-start Baud rat Voltage: Current: Voltage, vith RS-2 8 0.16 4 0.002 0.16 4 0.002 0.16 4 0.002 0.16 4 8 0.004 12 900 8 8 80 cd dotput v	manua Dutput o selection modes (<i>i</i> e selectii 4 digits 4 digits, Current, 232/RS-4 10 0.2 5 4.80 720 0.011 1.10 5 0.005 12 720 10 100 voltage.	n/off, Re- h by Volta automatic on: 1200,: Accuracy Accuracy Accuracy Accuracy 15 0.3 8 3.00 450 0.007 1.05 8 8 0.007 1.5 450 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	start mod ge (or cu restart, 2400,480 /: 0.2% of ne, Previ tional Gl 20 0.4 10 2.40 360 0.240 360 0.006 1.20 10 0.009 10.8 360 20 20 200 *10: Fron	des (auto rrent) ad safe mod opf rated corrated our opf rated corrated our eww, Foldl 0.6 15 1.60 240 0.004 1.5 0.002 1.6 240 30 300 0.002 1.6 240 30 300 300 300	safe), Fo just encc e)- ad 19,200 utput Vo put curr back, Loc dinterface 40 0.8 20 1.20 1.20 1.20 20 0.002 1.2 1.80 0.002 1.2 1.80 40 400 00% of Rate	oder. Nun bitage ±1 ent ±1 cc. ian	abber of ac count. punt. ut On, Fro d 80 1.6 40 0.60 90 0.002 1.60 40 0.002 1.60 90 0.004 1.2 90 80 800 /oltage.	Idresses: Int Panel 100 2 50 0.48 72 0.011 11.00 50 0.005 1.2 72 100 1000	31. Lock, CV 150 3 75 0.32 48 0.007 10.50 75 0.007 1.120 48 1500	CC. 300 6 150 0.16 24 0.004 12.00 150 0.002 0.160 24 300 3000	600 12 300 0.08 12 12.00 300 0.002 12.00 300 0.003 0.120 12 600 6000
.Control functions .Display .Indications .6 Interface Specifications for the GENESY .Remote Voltage Programming (16 bit) tesolution (0.002% of Vo Rated) .cccuracy (0.05% of Vo Rated) .ccuracy (0.05% of Vo Rated) .ccuracy (0.02% of lo Rated) .ccuracy (0.2% of lo Rated) .ccuracy (0.2% of lo Rated) .ccuracy (0.05% of Vo Rated) .esolution (% of lo Rated) .ccuracy (0.05% of Vo Rated) .ccuracy (0.05% of Vo Rated) .ccuracy (0.05% of Vo Rated) .ccuracy (0.05% of Vo Rated) .ccuracy (0.05% of lo Rated) .ccuracy (0.05% of lo Rated) .ccuracy (0.03% of lo Rated) .ccuracy (0.03% of lo Rated) .ccuracy (1% of Vo Rated) .ccuracy	V mV mV DufMA) (% mV mV mV mV 2% of rate	On/Off, C Address Re-start Baud rat Voltage: Current: Voltage, vith RS-2 8 0.16 4 0.06 4 0.002 0.16 4 0.002 0.16 4 0.004 12 900 8 80 80 ed output t	- manua Dutput o selection modes (e selection 4 digits 4 digits 7	n/off, Re- 1 by Volta automatic automatic automatic Accuracy Accuracy Alarm, Fi 85 Or Op 15 0.3 8 3.00 450 0.007 1.05 8 0.007 1.05 8 0.007 1.05 15 150 15 150	start mod ge (or cu -restart, 2400,480 /: 0.05% of : 0.2% of ne, Previ tional Gl 20 0.4 10 2.40 360 1.20 10 0.006 1.20 10.8 360 20 20 200 *10: From *11: For	tes (auto rrent) ad safe mod 0,9600 ar of rated cur rated our ew, Foldl PIB/LAN 30 0.6 15 1.60 240 0.004 1.20 1.5 0.002 1.6 240 300 300 a 300 a 300 a 90% to 11 load volta	safe), Fo just encc e)- ad 19,200 utput Vo put curr back, Loc encc, Loc encc 40 0.88 20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1	oder. Nun bitage ±1 ent ±1 cc: cal, Outpu e Installe 60 1.2 30 0.80 120 0.002 1.20 30 0.002 1.20 60 1.2 120 0.003 1.2 120 60 60 60	nber of ac count. bunt. it On, Fro d 0.60 90 0.002 1.60 40 0.004 1.2 90 80 800 800 /oltage. the unit vol	Idresses: Int Panel 100 2 50 0.48 72 0.011 11.00 50 0.005 1.2 72 100 1000 1000 1000 1000	31. Lock, CV 150 3 75 0.32 48 0.007 10.50 75 0.007 1.120 48 150 1500 g, constan	CC. 300 6 150 0.16 24 0.004 12.00 150 0.002 0.160 24 3000 3000 t input volt	600 12 300 0.08 12 0.002 12.00 300 0.003 0.120 12 600 6000 tage.
.Control functions .Display .Indications .6 Interface Specifications for the GENESY . Remote Voltage Programming (16 bit) tesolution (0.002% of Vo Rated) . Remote Current Programming (16 bit) tesolution (0.002% of Vo Rated) . Readback Voltage Resolution (% of Vo Rated) (* 14) . Readback Voltage Resolution (% of Vo Rated) . Readback Voltage Resolution (% of Io Rated) . Readback Current Resolution (% of Io Rated) . Readback Current Resolution (% of Io Rated) . Readback Current Resolution (Readback Current) . CVP/UVL Programming Resolution (% of Vo Rated) . CURACY (1% of Vo Rated) . Minimum voltage is guaranteed to maximum 0 . Minimum current is guaranteed to maximum 0	V mV mV DutmA (mV mV mV mV mV mV mV mV mV mV mV mV mV	On/Off, C Address Re-start- Baud rat Voltage: Current: Voltage, vith RS-2 8 0.16 4 0.002 0.16 4 0.002 0.16 4 0.004 12 900 8 8 80 ed output t doutput t doutput t	- manua Dutput o selection modes (e selection 4 digits 4 digits 7	n/off, Re- 1 by Volta automatic automatic automatic Accuracy Accuracy Alarm, Fi 85 Or Op 15 0.3 8 3.00 450 0.007 1.05 8 0.007 1.05 8 0.007 1.05 15 150 15 150	start mod ge (or cu -restart, 2400,480 ; 0.05% (: 0.2% of ne, Previ tional Gl 20 0.4 TU 2.40 360 0.4 TU 0.006 1.20 TU 0.009 TU.8 360 20 200 *10: Fron *11: For *12: For	tes (auto rrent) ad safe mod 0,9600 ar of rated c rated ou ew, Foldt PIB/LAN 30 0.6 15 1.60 240 0.004 1.5 0.002 1.6 240 30 300 300 1 90% to 11 load volta 8V-16V m	safe), Fo just encc e)- ad 19,200 utput Vo put curr back, Loc (Interface 40 0.8 20 1.20 1.20 1.20 1.20 0.003 1.20 20 0.002 1.2 180 40 40 400 20 0.002 1.2 180	oder. Nun 0. 0.1tage ±1 ent ±1 cc. einstalle 60 1.2 30 0.002 1.20 0.002 1.20 0.002 1.20 0.003 0.20 1.20 0.003 0.003 0.003 0.003 0.003 0.003 0.003	abber of ac count. punt. ut On, Fro d 80 1.6 40 0.60 90 0.002 1.60 40 0.002 1.60 90 0.004 1.2 90 80 800 /oltage.	Idresses: Int Panel 100 2 50 0.48 72 0.011 11.00 50 0.005 1.2 72 100 1000 1000 1000 1000	31. Lock, CV 150 3 75 0.32 48 0.007 10.50 75 0.007 1.120 48 150 1500 g, constanto p rated ou	CC. 300 6 150 0.16 24 0.004 12.00 150 0.002 0.160 24 300 3000 3000 t input volta	600 12 300 0.08 12 0.002 12.00 300 0.120 12 0.003 0.120 12 0.003 0.120 12 0.003 0.003 0.120 12 0.003 0.120 12 0.003 0.022 0.0200 0.0200 0.0200000000
	V mV mV DufMA) (% mV mV mV mV 2% of rate 4% of rate standards 208V moc	On/Off, C Address Re-start Baud rat Voltage: Current: Voltage, vith RS-2 8 0.16 4 0.002 0.16 4 0.002 0.16 4 0.002 0.16 4 0.004 12 900 8 8 800 0.004 12 900	manual Dutput o Selection modes (e selectii 4 digits; 4 digits; remain 232/RS-4 10 0.2 5 4.80 720 0.011 1.10 5 0.005 12 720 10 0.005 12 720 10 0.005 12 720 10 0.005 12 720 10 100 voltage. urrent. tc) is required.	n/off, Re- 1 by Volta automatic automatic automatic Accuracy Accuracy Alarm, Fi 85 Or Op 15 0.3 8 3.00 450 0.007 1.05 8 0.007 1.05 8 0.007 1.05 15 150 15 150	start mod ge (or cu restart, 2400,480 /: 0.05% of : 0.2% of ne, Previ tional Gl 20 0.4 10 2.40 360 1.20 10 0.006 1.20 10 0.009 10.8 360 20 20 20 20 20 20 20 20 20 20 20 20 20	tes (auto rrent) ad safe mod 0,9600 ar of rated c rated ou ew, Foldt PIB/LAN 30 0.6 15 1.60 240 0.004 1.5 0.002 1.6 240 30 300 300 1 90% to 11 load volta 8V-16V m	safe), Fc ust encc e)- ad 19,200 utput Va putput Va putput Va ad 19,200 utput Va putput Va ad 19,200 utput Va ad 19,200 ad 0.8 20 1.20 1.20 0.003 1.20 0.002 1.2 180 0.002 1.2 180 0.002 1.20 0.002 1.2 180 0.002 1.2 180 0.002 1.2 180 0.002 1.2 180 0.002 1.2 180 0.002 0.002 0.003 0.004 0.005 0.006 <td< td=""><td>oder. Nun 0. 0.1tage ±1 ent ±1 cc. einstalle 60 1.2 30 0.002 1.20 0.002 1.20 0.002 1.20 0.003 0.20 1.20 0.003 0.003 0.003 0.003 0.003 0.003 0.003</td><td>abber of ac count. bunt. tt On, Fro d 80 1.6 4U 0.600 90 0.002 1.60 4U 0.002 1.60 40 0.004 1.2 90 80 800 800 /oltage. the unit volate</td><td>Idresses: Int Panel 100 2 50 0.48 72 0.011 11.00 50 0.005 1.2 72 100 1000 1000 1000 1000</td><td>31. Lock, CV 150 3 75 0.32 48 0.007 10.50 75 0.007 1.120 48 150 1500 g, constanto prated ou</td><td>CC. 300 6 150 0.16 24 0.004 12.00 150 0.002 0.160 24 300 3000 3000 t input volta</td><td>600 12 300 0.08 12 0.002 12.00 300 0.120 12 0.003 0.120 12 0.003 0.120 12 0.003 0.003 0.120 12 0.003 0.120 12 0.003 0.022 0.0200 0.0200 0.0200000000</td></td<>	oder. Nun 0. 0.1tage ±1 ent ±1 cc. einstalle 60 1.2 30 0.002 1.20 0.002 1.20 0.002 1.20 0.003 0.20 1.20 0.003 0.003 0.003 0.003 0.003 0.003 0.003	abber of ac count. bunt. tt On, Fro d 80 1.6 4U 0.600 90 0.002 1.60 4U 0.002 1.60 40 0.004 1.2 90 80 800 800 /oltage. the unit volate	Idresses: Int Panel 100 2 50 0.48 72 0.011 11.00 50 0.005 1.2 72 100 1000 1000 1000 1000	31. Lock, CV 150 3 75 0.32 48 0.007 10.50 75 0.007 1.120 48 150 1500 g, constanto prated ou	CC. 300 6 150 0.16 24 0.004 12.00 150 0.002 0.160 24 300 3000 3000 t input volta	600 12 300 0.08 12 0.002 12.00 300 0.120 12 0.003 0.120 12 0.003 0.120 12 0.003 0.003 0.120 12 0.003 0.120 12 0.003 0.022 0.0200 0.0200 0.0200000000
Control functions Control function Control functif	V mV mV MV MV MV mV mV mV mV mV mV mV mV mV mV mV mV mV	On/Off, C Address Re-start Baud rat Voltage: Current: Voltage, vith RS-2 8 0.16 4 0.002 0.16 4 0.002 0.16 4 0.002 0.16 4 0.004 12 900 8 8 800 0.004 12 900	manual Dutput o Selection modes (e selectii 4 digits; 4 digits; remain 232/RS-4 10 0.2 5 4.80 720 0.011 1.10 5 0.005 12 720 10 0.005 12 720 10 0.005 12 720 10 0.005 12 720 10 100 voltage. urrent. tc) is required.	n/off, Re- 1 by Volta automatic automatic automatic Accuracy Accuracy Alarm, Fi 85 Or Op 15 0.3 8 3.00 450 0.007 1.05 8 0.007 1.05 8 0.007 1.05 15 150 15 150	start mod ge (or cu -restart, 2400,480 ; 0.05% (: 0.2% of ne, Previ tional Gl 20 0.4 TU 2.40 360 0.006 1.20 10 0.006 1.20 10 0.009 10.8 360 20 200 200 *10: Fron *12: For output c and rated	tes (auto rrent) ad safe mod 0,9600 ar of rated cur rated ou ew, Foldl 2005 15 1.60 240 0.004 1.5 0.002 1.5 0.002 1.6 240 30 300 1000 to 11 load volta 8V-16V m urrent. For d output cu	safe), Fo ust encc e)- ad 19,200 utput Va uptput	oder. Nun 0. 0.1tage ±1 ent ±1 cc. cal, Outpu e Installe 60 1.2 30 0.80 1.20 0.002 1.20 30 0.002 1.20 30 0.002 4.0002 9.0003 1.20 60 60 60 60 60 60 9.equal to to e, equal to to e, equal to to se, equal to to se equal to to se equal to to se equal to to 1.2 3.2	abber of ac count. bunt. tt On, Fro d 80 1.6 4U 0.600 90 0.002 1.60 4U 0.002 1.60 4U 0.002 1.60 4U 0.002 1.60 4U 0.002 1.60 40 0.002 1.60 40 0.002 1.60 40 0.002 1.60 90 80 800 800 800 90 80 800 800 90 80 800 80 90 90	100 2 50 0.48 72 0.011 11.00 50 0.005 1.2 72 100 1000 1000 tage ratin from 2V to asured at and monit	31. Lock, CV 150 3 75 0.32 48 0.007 10.50 75 0.007 1.120 48 150 1500 g, constanto p rated ou 10~100% of	300 6 150 150 0.06 24 0.004 12.00 150 150 0.002 0.160 24 300 3000 3000 tinput voltatof rated out	600 12 300 0.08 12 0.002 12.00 300 0.003 0.120 12 600 6000 tage. ge and ra utput volt.
.Control functions .Display .Indications .6 Interface Specifications for the GENESY: . Remote Voltage Programming (16 bit) tesolution (0.002% of Vo Rated) vecuracy (0.005% of Vo Rated) vecuracy (0.02% of Io Rated+0.1% of Io Actual+ . Readback Voltage tesolution (% of Vo Rated) .excuracy (0.05% of Vo Rated) .excuracy (1% of Vo Rated) .excurac	V mV mV MV MV mV mV mV mV mV mV .2% of rate 4% of rate standards 208V moV mV mV mV mV mV mV mA mA mA mA mA mA mA mA mA mA mA mA mV mV mV mV mV mV mV mV mV mV mV mV mV	On/Off, C Address Re-start Baud rat Voltage: Current: Voltage, with RS-2 8 0.16 4 0.002 0.16 4 0.002 0.16 4 0.002 0.16 4 0.004 12 900 8 8 80 0 0.004 12 900 8 8 80 0 d output t d output p	-manua Dutput o selection modes (e selectii 4 digits 4 digits 7 d	n/off, Re- 1 by Volta automatic on: 1200,: , Accuracy Accuracy Alarm, Fi 85 Or Op 15 0.3 8 3.00 450 0.007 1.05 8 0.007 1.05 8 0.007 1.05 8 0.007 1.05 8 0.007 1.5 15 15 15 150 150 150 150 150	start mod ge (or cu restart, 2400,480 /: 0.05% of : 0.2% of ne, Previ tional Gl 20 0.4 10 2.40 360 2.40 360 10.8 360 10.8 360 10.8 360 10.8 360 20 20 20 20 20 20 20 20 20 20 20 20 20	Auge Auge tes (auto rrent) ad safe mod 0,9600 ar of rated corrated our our rated our ad www.Foldl our PIB/LAN 30 30 0.6 1.5 1.60 240 1.5 0.002 1.6 240 30 300 300 n 90% to 11 load volta 8V~16V m warm-up Constant C warm-up	safe), Fc ust encc e)- ad 19,200 utput Va uput Va pack, Loc ad 12,200 ad 12,200 1,200 1,200 1,200 0.003 1,200 0.002 1,200 0,002 1,200 0,002 1,200 0,002 1,200 0,002 1,200 0,002 1,200 0,002 1,200 0,002 1,200 0,002 1,200 0,002 1,200 0,002 1,200 0,002 1,200 0,002 1,200 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000	oder. Nun bitage ±1 ent ±1 cc. installe 60 1.2 30 0.80 120 0.002 1.20 30 0.002 1.20 60	abber of ac count. punt. tt On, Fro d 80 1.6 40 0.60 90 0.002 1.60 40 0.002 1.60 40 0.004 1.2 90 80 800 800 800 6/tage. the unit vol measured f pple is me	100 2 50 0.48 72 0.011 11.00 50 0.005 1.2 72 100 1000 1000 tage ratin from 2V to asured at and monit	31. Lock, CV 150 3 75 0.32 48 0.007 10.50 75 0.007 1.120 48 150 1500 g, constanto p rated ou 10~100% of	300 6 150 150 0.06 24 0.004 12.00 150 150 0.002 0.160 24 300 3000 3000 tinput voltatof rated out	600 12 300 0.08 12 0.002 12.00 300 0.003 0.120 12 600 6000 tage. ge and ra utput volt.
.Control functions .Display .Indications .6 Interface Specifications for the GENESY. .Remote Voltage Programming (16 bit) esolution (0.002% of Vo Rated) .cccuracy (0.05% of Vo Rated) (*14) .Remote Current Programming (16 bit) esolution (0.002% of Io Rated) .ccuracy (0.2% of Io Rated) .ccuracy (0.2% of Io Rated) .esolution (8 of Vo Rated) .esolution (8 of Vo Rated) .esolution (8 of Io Rated) .ccuracy (0.05% of Vo Rated) .Readback Current .ccuracy (0.05% of Io Rated) .ccuracy (0.3% of Io Rated) .ccuracy (0.3% of Io Rated) .ccuracy (10 3% of Io Rated)	V mV mV MV MV mV mV mV mV mV mV mV mV mV mV mV mV mV	On/Off, C Address Re-start Baud rat Voltage: Current: Voltage, vith RS-2 8 0.16 4 0.002 0.16 4 0.002 0.16 4 0.002 0.16 4 0.004 12 900 8 8 80 0 0.004 12 900 8 8 80 0 0 0 0 0 0 0 0 0 0 0 0 0 0	manua Dutput o selection modes (e selectii 4 digits 4 digits 7 digits 7 digits 9 232/RS-4 10 0.2 5 7 20 0.011 1.10 5 0.005 7 20 0.011 1.10 5 0.005 12 720 10 100 voltage. :urrent, tc) is requ ower. in Remote	n/off, Re- n by Volta automatic on: 1200, , Accuracy Accuracy Accuracy 85 Or Op 15 0.3 8 0.007 1.05 8 0.007 1.05 8 0.007 1.05 8 0.007 1.05 8 0.007 1.05 8 0.007 1.05 8 0.007 1.5 15 15 150 15 150 15 150 15 150 15 150 150	start mod ge (or cu restart, 2400,480 ; 0.05% (: 0.2% of ne, Previ tional Gl 20 0.4 10 20 0.4 10 20 0.4 10 10 20 0.4 10 10 20 20 20 20 20 20 20 20 20 20 20 20 20	tes (auto rrent) ad safe mod 0,9600 ar of rated cur rated ou ew, Foldl 2005 15 1.60 240 0.004 1.5 0.002 1.5 0.002 1.6 240 30 300 1000 to 11 load volta 8V-16V m urrent. For d output cu	safe), Fc ust encc e)- ad 19,200 utput Va uput Va pack, Loc ad 12,200 ad 12,200 1,200 1,200 1,200 0.003 1,200 0.002 1,200 0,002 1,200 0,002 1,200 0,002 1,200 0,002 1,200 0,002 1,200 0,002 1,200 0,002 1,200 0,002 1,200 0,002 1,200 0,002 1,200 0,002 1,200 0,002 1,200 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000	oder. Nun bitage ±1 ent ±1 cc. installe 60 1.2 30 0.80 120 0.002 1.20 30 0.002 1.20 60	abber of ac count. bunt. tt On, Fro d 80 1.6 4U 0.600 90 0.002 1.60 4U 0.002 1.60 4U 0.002 1.60 4U 0.002 1.60 4U 0.002 1.60 40 0.002 1.60 40 0.002 1.60 40 0.002 1.60 90 80 800 800 800 90 80 800 800 90 80 800 80 90 90	100 2 50 0.48 72 0.011 11.00 50 0.005 1.2 72 100 1000 1000 tage ratin from 2V to asured at and monit	31. Lock, CV 150 3 75 0.32 48 0.007 10.50 75 0.007 1.120 48 150 1500 g, constanto p rated ou 10~100% of	300 6 150 150 0.06 24 0.004 12.00 150 150 0.002 0.160 24 300 3000 3000 tinput voltatof rated out	600 12 300 0.08 12 0.002 12.00 300 0.003 0.120 12 600 6000 tage. ge and ra utput volt.
Control functions Display Indications 6 Interface Specifications for the GENESY Remote Voltage Programming (16 bit) esolution (0.002% of Vo Rated) ccuracy (0.05% of Vo Rated) ccuracy (0.25% of lo Rated) esolution (0.002% of lo Rated) ccuracy (0.25% of lo Rated) esolution (% of Vo Rated) ccuracy (0.25% of lo Rated) esolution (% of Vo Rated) ccuracy (0.05% of Vo Rated) Readback Voltage esolution (% of lo Rated) esolution (% of lo Rated) esolution (% of lo Rated) ccuracy (0.3% of lo Rated) Readback Current esolution (% of lo Rated) esolution (% of lo Rated) esolution (% of lo Rated) Ccuracy (0.3% of lo Rated) Ccuracy (0.3% of lo Rated) esolution (0.1% of Vo Rated) Ccuracy (1% of Vo Rated) Minimum current is guaranteed to maximum 0 Minimum current is guaranteed to maximum 0 S For cases where conformance to various safety a-Phase 208V models: 170~265Vac, constant lo From No-Load to Full-Load, constant input volt	V mV mV mV mV mV mV mV mV mV mV mV mV mV	On/Off, C Address Re-start- Baud rat Voltage: Current: Voltage, vith RS-2 8 0.16 4 0.002 0.16 4 0.002 0.16 4 0.004 12 900 8 8 80 0.004 12 900 8 8 80 doutput t doutput	manua Dutput o selection modes (i e selectii 4 digits 4 digits; Current, 232/RS-4 10 0.2 5 0.0011 1.10 5 0.005 12 720 0.011 1.10 5 0.005 12 720 10 100 voltage. current, tc.) is requ ower. in Remotor of 600V mo	n/off, Re- h by Volta automatic on: 1200,: , Accuracy Accuracy Accuracy 85 Or Op 15 0.3 8 3.00 450 0.007 1.05 8 0.007 1.55 1.55 0.3 0.007 1.05 8 0.007 1.55 1.55 0.55 0.55 0.55 0.05 0.05 0.05 0.05 0.05 0.05 0.55 0.55 0.55 0.05 0.05 0.05 0.05 0.55 0.55 0.05 0.05 0.55	start mod ge (or cu restart, 2400,480 <i>;</i> 0.05% (: 0.2% of ne, Previ tional Gl 20 0.4 10 20 0.4 10 2.40 360 0.4 10 10 0.006 1.20 10 0.006 1.20 10 360 20 200 *10: Fron *11: For *12: For *12: For *12: For *12: For *12: All charter *12: Hor *12: Hor *11: Hor *12: Ho	Auge Auge tes (auto rrent) ad safe mod 0,9600 ar of rated corrated our our rated our ad www.Foldl our PIB/LAN 30 30 0.6 1.5 1.60 240 1.5 0.002 1.6 240 30 300 300 n 90% to 11 load volta 8V~16V m warm-up Constant C warm-up	safe), Fc ust encc e)- ad 19,200 utput Va uput Va pack, Loc ad 12,200 ad 12,200 1,200 1,200 1,200 0.003 1,200 0.002 1,200 0,002 1,200 0,002 1,200 0,002 1,200 0,002 1,200 0,002 1,200 0,002 1,200 0,002 1,200 0,002 1,200 0,002 1,200 0,002 1,200 0,002 1,200 0,002 1,200 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000	oder. Nun bitage ±1 ent ±1 cc. installe 60 1.2 30 0.80 120 0.002 1.20 30 0.002 1.20 60	abber of ac count. burnt. tt On, Fro d 80 1.6 4U 0.600 90 0.002 1.60 4U 0.002 1.60 4U 0.002 1.60 4U 0.002 1.60 4U 0.002 1.60 40 0.002 1.60 40 0.002 1.60 40 0.002 1.60 40 0.002 1.2 90 80 800 800 800 800 800 90 80 80 90 80 90	100 2 50 0.48 72 0.011 11.00 50 0.005 1.2 72 100 1000 1000 tage ratin from 2V to asured at and monit	31. Lock, CV 150 3 75 0.32 48 0.007 10.50 75 0.007 1.120 48 150 1500 g, constanto p rated ou 10~100% of	300 6 150 150 0.06 24 0.004 12.00 150 150 0.002 0.160 24 300 3000 3000 tinput voltatof rated out	600 12 300 0.08 12 0.002 12.00 300 0.003 0.120 12 600 6000 tage. ge and ra utput volt.

4 | **GENESYS**[™] | 2.4kW



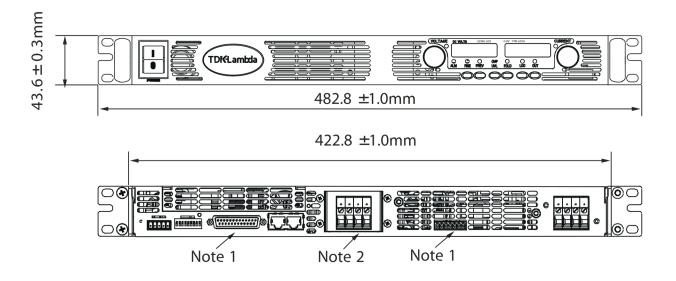
General Specifications Genesys™ 2.4kW

2.1 INPUT CHARACTERISTICS	GEN	8-300			20-120		40-60	60-40	80-30	100-24	150-16	300-8	600-4
1. Input voltage/freq. (*3)	VAC	Single Ph	ase,230V	models:	170~265V	/ac, 47~63	BHz						
i. input voltage/neq. (5)	VAC	3-Phase,	208V mo	dels: 170-	~265Vac, 4	47~63Hz							
. Maximum Single Phase,230V models	s:	17.3	17.3	17.3	16.8	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6
nput current	A	10.5	10.5	10.5	10.2	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
t 100% load3 Phase, 208V models:					230Vac, r								
Power Factor (Typ)	%	84	84	86	86	86	88	88	88	88	88	88	87
. Efficiency (*4) . Inrush Current (*5)	A	-	-		208V mod								
.2 POWER SUPPLY CONFIGURATION													
. Parallel Operation		Up to 4 io	lentical u	inits in m	aster/slave	e mode							
. Series Operation		Up to 2 id	dentical u	inits. with	n external	diodes. 6	00V Max 1	to Chassi	s ground				
.3 ENVIRONMENTAL CONDITIONS									-				
. Operating temp		0~50°C, 1	00% loa	d.									
. Storage temp		-20~85°C											
. Operating humidity				condensi									
. Storage humidity				condensi									
Vibration					he EUT is f			ng surface	2.				
i. Shock					ImSec. Un			//100		0			
7. Altitude									above 200	um, Alteri	natively, o	aerate ma	iximum ambier
					. Non ope nents of R			000m).					
8. RoHS Compliance		complies	with the	requiren	nems of R	uns airea	uve.						
Applicable Standards:													
.Applicable Standards: .ESD		IEC1000	1.2 /	\ir diach	0K/V	contact							
J.Fast transients		IEC1000-		Air-disch	-8KV, 0 KV IEC10	contact							
.Surge immunity					line to								
Conducted immunity		IEC1000-			000-4-3.	3V/m							
.Radiated immunity		EN61000	,	1A/m	EN610								
Magnetic field immunity		EN55022				VCCI-A.				_			
8.Voltage dips				art 15-A, \									
9.Conducted emission													
0. Radiated emission													
IV. NAUIALEU EIIIISSIOII													
2.5 SAFETY													
2.5 SAFETY		UL 60950	-1, CSA 2	2.2 No. 60	0950-1,IEC	60950-1,	EN 6095	0-1					
2.5 SAFETY									n/control	interface	es: RS232	2/485, IEI	EE, Isolated
2.5 SAFETY		Models, L	withs Voi	et 50V:	Output is	s SELV, a	all comm	unicatio		interface	es: RS232	2/485, IE	EE, Isolated
2:5 SAFETY I.Applicable standards:		Models, L Remote F	with Vou AN, Sens Programn	et 50V: ning and	Output is Monitorir	s SELV, a ng, 5V d.c.	all comm auxiliary	iunicatioi output a	re SELV				EE, Isolated
2:5 SAFETY .Applicable standards:		Models, L Remote F Models v Analog, L	with Vou AN, Sense Programm vith 60V AN.	et 50V: ning and Vout 400	Output is Monitorir)V: Outpu	s SELV, a ng, 5V d.c. it is Haza	all comm auxiliary rdous, co	unication output a mmunica	re SELV ation/con	trol interf	aces: RS2	232/485, 1	EEE,Isolated
2:5 SAFETY .Applicable standards:		Models, L Remote F Models v Analog, L	with Vou AN, Sense Programm vith 60V AN.	et 50V: ning and Vout 400	Output is Monitorir)V: Outpu	s SELV, a ng, 5V d.c. it is Haza	all comm auxiliary rdous, co	unication output a mmunica	re SELV ation/con	trol interf	aces: RS2	232/485, 1	EEE,Isolated
2:5 SAFETY I.Applicable standards:		Analog,L Remote F Models v Analog, L Bemote Programi	with You Programm vith 60V AN, Programi ning and	et 50V: ning and Vout 400 ng and	Output is Monitorir)V: Outpu Monitorin	s SELV, a ng, 5V d.c. t is Haza g (pins 1	III comm auxiliary rdous, co -3, pins1	unication output a mmunica 4-16), 5V	re SELV ation/con / d.c. aux	trol interf	aces: RS2 put_are	232/485, I SELV, Ser	EEE,Isolated
2.5 SAFETY 1.Applicable standards: 2.Interface classification		Models, L Remote I Models v Analog, L Bemote Programi Monitorii	with Sensi Programm vith 60V AN, Programi ming and ng (pins	et 50V: ning and Vout 400 ng and 8-13, pin:	Output is Monitorir)V: Outpu Monitorin s 21-25),1	s SELV, a ng, 5V d.c. t is Haza g (pins 1 5V auxilia	all comm auxiliary rdous, co -3, pins1 ary outpu	unication output a mmunica 4-16), 5V t are Haz	re SELV ation/con ⁷ d.c. aux zardous. 1	trol interf iliary out Models wi	aces: RS2 put_are	232/485, I SELV, Ser	EEE,Isolated
2:5 SAFETY .Applicable standards:		Analog,L Remote F Models v Analog, L Bemote Program Monitorii	with Voi AN, Sensi Programm vith 60V AN, Programi ning and ng (pins 3 us, all con	et 50V: ning and Vout 400 ng and 8-13, pins	Output is Monitorir)V: Outpu Monitorin	s SELV, a ng, 5V d.c. t is Haza g (pins 1 5V auxilia pl interfac	III comm auxiliary rdous, co -3, pins1 iry outpu es-RS232	ounication output a mmunica 4-16), 5V t are Haz /485, IEE	re SELV ation/con ⁽ d.c. aux zardous. 1 E. Isolatec	trol interf iliary out Models wi I Analog.	aces: RS2 put_are_ th_400V	232/485, I SELV, Ser Vout 600	EEE,Isolated nse, Remote V: Output is
2:5 SAFETY Applicable standards:		Analog, L Remote F Models v Analog, L Bemote Program Monitorii Hazardou LAN, Sen	with Vor AN, Sensi Programn vith 60V AN, Programi ming and ng (pins us, all con se, Remo	یز 50V: م ning and Vout 400 ng and ا 8-13, pin: nmunicat te Progra	Output is Monitorir IV: Outpu Monitorin s 21-25),1 ion/contro	s SELV, a ng, 5V d.c. t is Haza g (pins 1 5V auxilia ol interfac nd Monito	III comm auxiliary rdous, co -3, pins1 iry outpu ces-RS232 pring (all p	ounication output a mmunica 4-16), 5V t are Haz /485, IEEI pins), 5V	re SELV ation/con <u>d.c. aux</u> zardous. <i>I</i> E, Isolatec d.c./15V c	trol interf iliary out Models wi I Analog, I.c. auxilia	aces: RS2 put_are th_400V ry output	232/485, I SELV, Ser Vout 600 Is are Haz	EEE,Isolated nse, Remote V: Output is
2:5 SAFETY Applicable standards:		Models, L Remote F Models v Analog, L Bemote Program Monitorin Hazardou LAN, Sen Vout 50V	with Sense Programm vith 60V AN, Programi ming and ng (pins us, all con se, Remo models:	ut 50V: ning and Vout 400 ng and 8-13, pin: nmunicat te Progra Input-Ou	Output is Monitorir DV: Outpu Monitorin s 21-25),1 ion/contro mming ar tput/com	s SELV, a ng, 5V d.c. t is Haza g (pins 1 5V auxilia ol interfac nd Monito municatio	II comm auxiliary rdous, co -3, pins1 iry outpu es-RS232 pring (all p on/contro	ounication output a mmunica 4-16), 5V t are Haz /485, IEEI pins), 5V il/auxiliar	re SELV ation/con <u>d.c. aux</u> zardous. <i>I</i> E, Isolatec d.c./15V c y outputs	trol interf iliary out Models wi I Analog, I.c. auxilia i (SELV): 42	aces: RS2 put_are th 400V ry output 242VDC 1	232/485, I SELV, Ser Vout 600 Is are Haz min,	EEE,Isolated nse, Remote V: Output is
2:5 SAFETY .Applicable standards:		Models, L Remote I Models v Analog, L Bemote Program Monitorin Hazardou LAN, Sen Vout 50V Input-Gro	with Sensi Programm vith 60V AN, Programi ning and ng (pins a rs, all com se, Remo models: pund: 282	ut 50V: ning and Vout 400 ng and 8-13, pin: nmunicat te Progra Input-Ou 28VDC 1n	Output is Monitorir DV: Outpu Monitorin s 21-25),1 ion/contro mming ar tput/com	s SELV, a ng, 5V d.c. t is Haza g (pins 1 5V auxilia ol interfac nd Monito municatio	II comm auxiliary rdous, co -3, pins1 iry outpu es-RS232 pring (all p on/contro	ounication output a mmunica 4-16), 5V t are Haz /485, IEEI pins), 5V il/auxiliar	re SELV ation/con <u>d.c. aux</u> zardous. <i>I</i> E, Isolatec d.c./15V c y outputs	trol interf iliary out Models wi I Analog, I.c. auxilia i (SELV): 42	aces: RS2 put_are th 400V ry output 242VDC 1	232/485, I SELV, Ser Vout 600 Is are Haz min,	EEE,Isolated ise, Remo te V: Output is ardous.
2: 5 SAFETY I.Applicable standards: 2.Interface classification		Models, L Remote I Models v Analog, L Bemote Program Monitorin Hazardou LAN, Sen Vout 50V Input-Gro 60V Vout	with Sensi Programm AN, Programm ining and ng (pins is, all con se, Remo models: pund: 282 100V mc	ut 50V: ning and Vout 400 ng and 8-13, pin: nmunicat te Progra Input-Ou 28VDC 1n odels:	Output is Monitorin DV: Outpu Monitorin s 21-25),1 ion/contro mming ar tput/com nin., Outp	s SELV, a ng, 5V d.c. t is Haza g (pins 1 5V auxilia ol interfac nd Monito municatio ut/comm	auxiliary auxiliary rdous, co -3, pins1 ary outpu ces-RS232 pring (all p pn/contro unication	unication output a mmunica 4-16), 5V t are Haz /485, IEEI pins), 5V il/auxiliar /control/	re SELV ation/con 7 d.c. aux 2 ardous. 1 E, Isolated d.c./15V c y outputs auxiliary	trol interf iliary out Models wi I Analog, I.c. auxilia G(SELV): 42 outputs (S	aces: RS2 put_are_! th_400V ry output 242VDC 1 SELV)-Gro	232/485, I SELV, Ser Vout 600 s are Haz min, und: 1000	EEE,Isolated nse, Remote V: Output is ardous. 0VDC 1min.
2:5 SAFETY I.Applicable standards:		Models, L Remote I Models v Analog, L Bemote Program Monitorin Hazardou LAN, Sen Vout 50V Input-Gro 60V Vout	with Sensi Programm AN, Programm ining and ng (pins is, all con se, Remo models: pund: 282 100V mc	ut 50V: ning and Vout 400 ng and 8-13, pin: nmunicat te Progra Input-Ou 28VDC 1n odels:	Output is Monitorin DV: Outpu Monitorin s 21-25),1 ion/contro mming ar tput/com nin., Outp	s SELV, a ng, 5V d.c. t is Haza g (pins 1 5V auxilia ol interfac nd Monito municatio ut/comm	auxiliary auxiliary rdous, co -3, pins1 ary outpu ces-RS232 pring (all p pn/contro unication	unication output a mmunica 4-16), 5V t are Haz /485, IEEI pins), 5V il/auxiliar /control/	re SELV ation/con 7 d.c. aux 2 ardous. 1 E, Isolated d.c./15V c y outputs auxiliary	trol interf iliary out Models wi I Analog, I.c. auxilia G(SELV): 42 outputs (S	aces: RS2 put_are_! th_400V ry output 242VDC 1 SELV)-Gro	232/485, I SELV, Ser Vout 600 s are Haz min, und: 1000	EEE,Isolated nse, Remote V: Output is ardous. 0VDC 1min.
2: 5 SAFETY I.Applicable standards: 2.Interface classification		Models,L Remote F Models v Analog, L Perogramm Monitorii Hazardou LAN, Sen Vout 50V Input-Gro 60V Vout Input-Ou Input-cor	Miths you Programm vith 60V AN, Programm ning and ng (pins and so, all con se, Remo models: bound: 282 100V mc tput/15V nmunica	t 50V: ning and Vout 40C ng and 8-13, pin: nmunicat te Progra Input-Ou 28VDC 1n odels: 'd.c. auxil tion/cont ation/	Output is Monitoriri V: Outpu Monitorin s 21-25),1 ion/contri mming ar tput/com nin., Outp liary outpi rol/5V d.	s SELV, a ng, 5V d.c. t is Haza g (pins 1 5V auxilia ol interfac nd Monitc municati ut/comm c. auxilia	Ill comm auxiliary dous, co -3, pins1 ry outpu es-RS232 ring (all p n/contro unication unication ry outp	unication output a mmunica 4-16), 5V t are Haz /485, IEEI joins), 5V di/auxiliar /control/ /control/ /control/	re-SELV ation/con 4 d.c. aux cardous. I E, Isolatec d.c./15V y outputs auxiliary (Hazardon 4): 4242\	trol interf iliary out Models wi I Analog, I.c. auxilia GSELV): 42 outputs (S us): 2600V (DC 1mir	aces: RS2 put are t th 400V ry output 242VDC 1 SELV)-Gro DC 1 min, n, Outpu	232/485, I SELV, Ser Vout 600 s are Haz min, und: 1000 rt/15V d	EEE,Isolated hse, Remote V: Output is ardous. 0VDC 1min. .c. auxiliary
2 :5 SAFETY .Applicable standards: 2.Interface classification		Models,L Remote F Models v Analog, L Perogramm Monitorii Hazardou LAN, Sen Vout 50V Input-Gro 60V Vout Input-Ou Input-cor	Miths you Programm vith 60V AN, Programm ning and ng (pins and so, all con se, Remo models: bound: 282 100V mc tput/15V nmunica	t 50V: ning and Vout 40C ng and 8-13, pin: nmunicat te Progra Input-Ou 28VDC 1n odels: 'd.c. auxil tion/cont ation/	Output is Monitoriri V: Outpu Monitorin s 21-25),1 ion/contri mming ar tput/com nin., Outp liary outpi rol/5V d.	s SELV, a ng, 5V d.c. t is Haza g (pins 1 5V auxilia ol interfac nd Monitc municati ut/comm c. auxilia	Ill comm auxiliary dous, co -3, pins1 ry outpu es-RS232 ring (all p n/contro unication unication ry outp	unication output a mmunica 4-16), 5V t are Haz /485, IEEI joins), 5V di/auxiliar /control/ /control/ /control/	re-SELV ation/con 4 d.c. aux cardous. I E, Isolatec d.c./15V y outputs auxiliary (Hazardon 4): 4242\	trol interf iliary out Models wi I Analog, I.c. auxilia GSELV): 42 outputs (S us): 2600V (DC 1mir	aces: RS2 put are t th 400V ry output 242VDC 1 SELV)-Gro DC 1 min, n, Outpu	232/485, I SELV, Ser Vout 600 s are Haz min, und: 1000 rt/15V d	EEE,Isolated hse, Remote V: Output is ardous. 0VDC 1min. .c. auxiliary
2:5 SAFETY .Applicable standards: 2.Interface classification		Models, L Remote F Models v Analog, L Bemote Program Monitorin Hazardou LAN, Sen Vout 50V Input-Gro 60V Vout Input-Ou Input-Cou output/Cc Sabiffary(with Synthesis and Synthesis a	t 50V: ining and Vout 400 ng and 8-13, pin: nmunicat te Progra Input-Ou 28VDC 1n odels: 'd.c. auxii tion/cont iation/ is): - con	Output is Monitoriri)V: Outpu Monitorin s 21-25),1 ion/contre mming ar tput/com nin., Outp liary outpu rol/5V d. nmunicati	s SELV, a ng, SV d.c. t is Haza g (pins 1 5V auxilia ol interfac nd Monitc municatic ut/comm c. auxilia on/contro	III comm auxiliary dous, co -3, pins1 rry outpu es-RS232 pring (all p pn/contro unication unication rry outp	unication output a mmunica 4-16), -5V t are Haz /485, IEEI oins), 5V (il/auxiliar /control/ ut (SELV auxiliary	re SELV ation/con cardous. I E, Isolatec d.c./15V c y outputs auxiliary (Hazardou 9: 4242) v output	trol interf iliary out Models wi I Analog, I.c. auxilia (SELV): 42 outputs (S us): 2600V (DC 1mir (SELV): 15	aces: RS2 put_are : th 400V ry output 242VDC 1 242VDC 1 SELV)-Gro DC 1 min, 3, Outpu	232/485, I SELV, Ser Vout 600 s are Haz min, und: 1000 rt/15V d Imin,Outį	EEE,Isolated nse, Remote V: Output is ardous. 0VDC 1min.
2 :5 SAFETY .Applicable standards: 2.Interface classification		Models, L Remote F Models v Analog, L Bemote Program Monitorin Hazardou LAN, Sen Vout 50V Input-Gro 60V Vout Input-Ou Input-Cou output/Cc Sabiffary(with Synthesis and Synthesis a	t 50V: ining and Vout 400 ng and 8-13, pin: nmunicat te Progra Input-Ou 28VDC 1n odels: 'd.c. auxii tion/cont iation/ is): - con	Output is Monitoriri)V: Outpu Monitorin s 21-25),1 ion/contre mming ar tput/com nin., Outp liary outpu rol/5V d. nmunicati	s SELV, a ng, SV d.c. t is Haza g (pins 1 5V auxilia ol interfac nd Monitc municatic ut/comm c. auxilia on/contro	III comm auxiliary dous, co -3, pins1 rry outpu es-RS232 pring (all p pn/contro unication unication rry outp	unication output a mmunica 4-16), -5V t are Haz /485, IEEI oins), 5V (il/auxiliar /control/ ut (SELV auxiliary	re SELV ation/con cardous. I E, Isolatec d.c./15V c y outputs auxiliary (Hazardou 9: 4242) v output	trol interf iliary out Models wi I Analog, I.c. auxilia (SELV): 42 outputs (S us): 2600V (DC 1mir (SELV): 15	aces: RS2 put_are : th 400V ry output 242VDC 1 242VDC 1 SELV)-Gro DC 1 min, 3, Outpu	232/485, I SELV, Ser Vout 600 s are Haz min, und: 1000 rt/15V d Imin,Outį	EEE,Isolated nse, Remote V: Output is ardous. 0VDC 1min. .c. auxiliary put/15V d.c.
: .5 SAFETY .Applicable standards: .Interface classification		Models, L Remote J Models v Analog, L Bemote Programm Monitorin Hazardou LAN, Sen Vout 50V Input-Go OV Vout Input-Co Output/c SaXiffaly commun models: Input-Ou	with Synthesis and Synthesis a	et 50V: ning and Vout 400 ng and 8-13, pin: nmunicat te Progra Imput-Ou 28VDC 1n dels: 'd.c. auxii tion/cont ation/ us): - con ontrol (H 'd.c. auxii	Output is Monitoriri V: Outpu Monitorin s 21-25),1 ion/contri mming ar tput/com nin., Outp liary outpi rol/5V d. nmunicati lazardous)	s SELV, a ag, SV d.c. t is Haza g (pins 1 5V auxiliz ol interfac d Monito municatio ut/comm c auxilia on/contro b: - Ground ut/comm	III comm auxiliary rdous, co -3, pins1 rry outpu es-RS232 pring (all p on/contro unication unication rry outp bl/5V d.c. d: 1200VI unication	unication output a mmunica 4-16), 5V t are Haz /485, IEEI joins), 5V di/auxiliar /control/ /control/ auxiliary DC 1min, /control	re SELV ition/con <u>d.c.</u> aux tardous. <u>I</u> <u>i</u> Isolatec d.c./15V c y outputs auxiliary (Hazardon <u>y</u> : 4242 v output Input-Gro (Hazardon (Hazardon	trol interf illiary out Models wii I.Analog, I.c. auxiliai (SELV): 4: outputs (S US): 2600V (DC 1mir (SELV): 1: ound: 282 us): 4000V	aces: RS2 put_are : th 400V ry output 242VDC 1 SELV)-Gro DC 1min, -, Outpu 200VDC - :8VDC 1min, DC 1min,	232/485, I SELV, Ser Vout 600 s are Haz min, und: 1000 tt/15V d I min,Outp nin. 100V	EEE,Isolated hse, Remote V: Output is ardous. OVDC 1min. .c. auxiliary put/15V d.c. V Vout 600V
. 5 SAFETY .Applicable standards: .Interface classification .Withstand voltage		Models, L Remote J Models v Analog, L Bemote Programm Monitoriu Hazardou LAN, Sen Vout 50V Input-Go OV Vout Input-Co Output/c SaXMG/S commun models: Input-Cou Input-cor	with Synthesis and Synthesis a	et 50V: ning and Vout 400 8-13, pin: nmunicat te Progra Input-Ou 28VDC 1n dels: 'd.c. auxil tion/cont ation/ us): - con ontrol (H 'd.c. auxil tion/cont	Output is Monitoriri V: Outpu Monitorin s 21-25),1 ion/contri mming ar tput/com nin., Outp liary outpi rol/5V d. nmunicati lazardous)	s SELV, a ag, SV d.c. t is Haza g (pins 1 5V auxiliz ol interfac d Monito municatio ut/comm c auxilia on/contro b: - Ground ut/comm	III comm auxiliary rdous, co -3, pins1 rry outpu es-RS232 pring (all p on/contro unication unication rry outp bl/5V d.c. d: 1200VI unication	unication output a mmunica 4-16), 5V t are Haz /485, IEEI joins), 5V di/auxiliar /control/ /control/ auxiliary DC 1min, /control	re SELV ition/con <u>d.c.</u> aux tardous. <u>I</u> <u>i</u> Isolatec d.c./15V c y outputs auxiliary (Hazardon <u>y</u> : 4242 v output Input-Gro (Hazardon (Hazardon	trol interf illiary out Models wii I.Analog, I.c. auxiliai (SELV): 4: outputs (S US): 2600V (DC 1mir (SELV): 1: ound: 282 us): 4000V	aces: RS2 put_are : th 400V ry output 242VDC 1 SELV)-Gro DC 1min, -, Outpu 200VDC - :8VDC 1min, DC 1min,	232/485, I SELV, Ser Vout 600 s are Haz min, und: 1000 tt/15V d I min,Outp nin. 100V	EEE,Isolated nse, Remote V: Output is ardous. 0VDC 1min. .c. auxiliary put/15V d.c.
.5 SAFETY Applicable standards: .Interface classification .Withstand voltage .Insulation resistance .6 MECHANICAL CONSTRUCTION		Models, L Remote F Models v Analog, L Bemote Programi Monitorii Hazardou LAN, Sen Vout 50V Input-Gro 60V Vout Input-Ou Input-Co output/co Suthfay Commun models: Input-Ou Input-Co	(th) S (th) Programming with 60V AN, Programining ing and ing and ing and to any programining and to any to any t	et 50V: ning and Vout 400 ng and 8-13, pin: nmunicat te Progra Input-Ou 28VDC 1n odels: 'd.c. auxil tion/cont ation/ (d.c. auxil tion/cont ation/	Output is Monitorir IV: Outpu Monitorin s 21-25),1 ion/contr mming ar tput/com nin., Outp liary outpi rol/5V d.	s SELV, a ag, 5V d.c. t is Haza g (pins 1 5V auxilia ol interfac ol monito municatic ut/comm c. auxilia on/contro b: -Ground ut/comm c. auxilia	Ill comm auxiliary rdous, co -3, pins1 iry outpu es-RS232 pin/contro unication unication unication iry outp bl/5V d.c. d: 1200VI <u>unication</u> iry outp	unication output a mmunica 4-16), 5V t are Haz /485, IEEI jins), 5V d l/auxiliar /control / auxiliary OC 1min, /control / ut (SELV	re SELV ation/con ation/con ardous. I E, Isolatec dic./15V y outputs auxiliary (Hazardoo y): 4242 r output Input-Gra (Hazardoo y): 4242 r output	trol interf iliary out Analog, I. C. auxiliar (SELV): 4: outputs (S USLV): 19 OC 1mir (SELV): 19 ound: 282 us): 4000V /DC 1mir	aces: R52 put are th 400V ry output 242VDC 1 ELV)-Gro DC 1min, a, Outpu 200VDC 1 8VDC 1min, a, Outpu	232/485, I SELV, Ser Vout 600 s are Haz min, und: 1000 it/15V d	EEE,Isolated hse, Remote V: Output is ardous. 0VDC 1min. .c. auxiliary put/15V d.c. V Vout 600V .c. auxiliary
.5 SAFETY .Applicable standards: .Interface classification .Withstand voltage .Insulation resistance .6 MECHANICAL CONSTRUCTION . Cooling		Models, L Remote F Models v Analog, L Bemote Programi Monitorii Hazardou LAN, Sen Vout 50V Input-Gro 60V Vout Input-Cor output/c Sabitary Commun models: Input-Cor Input-Cor Output/C Sabitary Commun	(th) S (th) Programming and programming and ning and ng (pins 1 is, all con- se, Remo- models: pund: 282 100V mc tput/15V nmunicai pommunicai tput/15V nmunicai tput/15V nmunicai tput/15V nmunicai tput/15V nmunicai tput/15V nmunicai tput/15V nmunicai tput/15V nmunicai tput/15V nmunicai tput/15V nmunicai tput/15V nmunicai tput/15V nmunicai	et 50V: ning and Vout 400 ng and 4 8-13, pin: nmunicat te Progra Input-Ou 28VDC 1n odels: 'd.c. auxil tion/cont ation/ d.c. auxil tion/cont ation/ Si: - con ontrol (H 'd.c. auxil 'd.c. auxil	Output is Monitorin V: Outpu Monitorin s 21-25),1 ion/contre mming ar tput/com nin., Outp liary outpi rol/5V d. liary outpi rol/5V d.	s SELV, a ag, SV d.c. t is Haza g (pins -1 SV auxilia ol interfac d Monitto municati ut/comm c auxilia on/contro b: -Ground c auxilia	all comm auxiliary rdous, co -3, pins1 iry outpu es-R5232 pring (all p on/contro unication unication unication iry outp ol/5V d.c. d: 1200VI unication iry outp	unication output a mmunica 4-16), -5V t are Haz /485, IEEI jins), 5V d l/auxiliar /control / ut (SELV auxiliary DC 1min, /control / ut (SELV	re SELV tion/con cardous. I E, Isolatec d.c./15V c y outputs auxiliary (Hazardoo): 4242\ r output Input-Gro (Hazardoo): 4242\ SUTBUTE	trol interf iliary out Analog, C. auxilia (SELV): 4: outputs (S us): 2600V (DC 1mir (SELV): 19 ound: 282 us): 4000V (DC 1mir	aces: RS2 put are the 400V ry output 242VDC 1 ELV)-Gro DC 1min, n, Output 200VDC 1min, n, Output 200VDC 1min, n, Output 200VDC 1min, n, Output	232/485, I SELV, Ser Vout 600 s are Haz min, und: 1000 it/15V d	EEE,Isolated hse, Remote V: Output is ardous. OVDC 1min. .c. auxiliary put/15V d.c. V Vout 600V
.5 SAFETY .Applicable standards: .Interface classification .Withstand voltage .Insulation resistance .6 MECHANICAL CONSTRUCTION . Cooling . Dimensions (WxHxD)		Models, L Remote F Models v Analog, L Perogramm Monitorin Hazardou LAN, Sen Vout 50V Input-Gro 60V Vout Input-Gro 60V Vout Input-Cor output/c Satisfy Commun models: Input-Cor 000 Juput-Cor 000 Juput	(th) S (th) Programming and programming and ning and ng (pins 1 is, all con- se, Remo- models: pund: 282 100V mc tput/15V nmunicai pommunicai tput/15V nmunicai tput/15V nmunicai tput/15V nmunicai tput/15V nmunicai tput/15V nmunicai tput/15V nmunicai tput/15V nmunicai tput/15V nmunicai tput/15V nmunicai tput/15V nmunicai tput/15V nmunicai	et 50V: ning and Vout 400 ng and 4 8-13, pin: nmunicat te Progra Input-Ou 28VDC 1n odels: 'd.c. auxil tion/cont ation/ d.c. auxil tion/cont ation/ Si: - con ontrol (H 'd.c. auxil 'd.c. auxil	Output is Monitorin V: Outpu Monitorin s 21-25),1 ion/contre mming ar tput/com nin., Outp liary outpi rol/5V d. liary outpi rol/5V d.	s SELV, a ag, SV d.c. t is Haza g (pins -1 SV auxilia ol interfac d Monitto municati ut/comm c auxilia on/contro b: -Ground c auxilia	all comm auxiliary rdous, co -3, pins1 iry outpu es-R5232 pring (all p on/contro unication unication unication iry outp ol/5V d.c. d: 1200VI unication iry outp	unication output a mmunica 4-16), -5V t are Haz /485, IEEI jins), 5V d l/auxiliar /control / ut (SELV auxiliary DC 1min, /control / ut (SELV	re SELV tion/con cardous. I E, Isolatec d.c./15V c y outputs auxiliary (Hazardoo): 4242\ r output Input-Gro (Hazardoo): 4242\ SUTBUTE	trol interf iliary out Analog, C. auxilia (SELV): 4: outputs (S us): 2600V (DC 1mir (SELV): 19 ound: 282 us): 4000V (DC 1mir	aces: RS2 put are the 400V ry output 242VDC 1 ELV)-Gro DC 1min, n, Output 200VDC 1min, n, Output 200VDC 1min, n, Output 200VDC 1min, n, Output	232/485, I SELV, Ser Vout 600 s are Haz min, und: 1000 it/15V d	EEE,Isolated hse, Remote V: Output is ardous. 0VDC 1min. .c. auxiliary put/15V d.c. V Vout 600V .c. auxiliary
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S SAFETY Applicable standards: Interface classification Withstand voltage Insulation resistance 6 MECHANICAL CONSTRUCTION . Cooling Dimensions (WxHxD) Weight		Models L Remote F Models v Analog, L Perogram Monitorin Hazardou LAN, Sen Yout 50V Input-Grr 60V Vout Input-Grr 60V Vout Input-Grr 60V Vout Input-Cou Input-Cou Input-Cou Input-Cou Input-Cou Input-Cou Input-Cou Input-Cou Commun models: Input-Ou Input-Cou SaxHark Commun Input-Cou Input-Cou SaxHark SaxHa	with S Voi Programm vith 60V AN, Programi ning and g (pins 1 is, all con se, Remo models: bund: 282 100V mc tput/15V nmunica: pmmunic tput/15V nmunica: pmmunic trut/15V nmunica: pmmunic trut/15V nmunica: pmmunic trut/15V nmunica: pmmunic trut/15V nmunica: pmmunic trut/15V nmunica: pmmunic trut/15V nmunica: pmmunic trut/15V nmunica: pmmunic trut/15V nmunica: pmmunic trut/15V nmunica: pmmunic trut/15V nmunica: pmmu	et 50V: ning and Vout 400 ng and 8-13, pin: nmunicat te Progra Imput-Ou 28VDC 1n id.c. auxilition/ soles: 'd.c. auxilition/ us): - con ontrol (H 'd.c. auxilition/ shi from atton/ shi from atton a	Output is Monitorin V: Outpu Monitorin s 21-25),1 ion/contri- mming ar tput/com nin., Outp liary outpi rol/5V d. liary outpi rol/5V d. ROVERTING To VECTOR	S SELV, a ag, SV d.c. t is Haza g (pins 1 5V auxiliz ol interfac d Monitor municatio ut/comm c. auxiliz on/contro c. auxiliz v/centiat c. auxiliz v/centiat c. auxiliz mission P	III comm auxiliary rdous, co -3, pins1 rry outpu es-RS232 pring (all point on/contro unication unication ry outp b/SV d.c. d: 1200V[unication ry outp completes compl	unication output a mmunica 4-16), 5V t are Haz /485, IEEI joins), 5V di/auxiliar /control/ ut (SELV auxiliary DC 1min, /control / ut (SELV auxiliary GF-10,16	re SELV ation/con ation/con ardous. I serious. I serious. I serious. I auxiliary (Hazardon): 4242 auxiliary output Input-Gre (Hazardon): 4242 Sevi BUt(6) series, wi	trol interf iliary out Analog, I.C. auxilia (SELV): 4: outputs (S US): 2600V (DC 1mir (SELV): 19 ound: 282 us): 4000V (DC 1mir SEL)(11,556 es, etc.) th Strain	aces: R52 put_are_: th 400V ry output 242VDC 1 SELV)-Gro DC 1min, ,Outpu 200VDC 18VDC 1r DC 1min, n,Outpu 28VDC 1r DC 1min, n,Outpu 28VDC 1r DC 1min, n,Outpu 28VDC 1r DC 1min, n,Outpu	232/485, I SELV, Ser Vout 600 s are Haz min, und: 1000 it/15V d	EEE,Isolated hse, Remote V: Output is ardous. 0VDC 1min. .c. auxiliary put/15V d.c. V Vout 600V .c. auxiliary
2.5 SAFETY .Applicable standards: 2.Interface classification 3.Insulation resistance 2.6 MECHANICAL CONSTRUCTION . Cooling 2. Dimensions (WxHxD) 3. Weight 4. AC Input connector (with Protective Co		Models L Remote F Models v Analog, L Bemote Program Monitorin Hazardou LAN, Sen Vout 50V Input-Gru 60V Vout Input-Ou Input-Ou Input-Cor output/cc SQXIIISIV commun models: Input-Ou Input-Ou Input-Cor output/cc SQXIIISIV Commun Models: Input-Ou Input-Subar Star Star Star Star Star Star Star St	kith Synthesis and the synthesynthesis and the synthesis and the synthesis and the s	et 50V: ining and Vout 400 ng and 8-13, pin: municat te Progra Input-Ou 28VDC 1n vdels: 'd.c. auxil tion/cont ation/ is): - con ontrol (H 'd.c. auxil tion/cont ation/ Shiftent ation/ Shiftent ation/ Shiftent ation/ Shiftent ation/ Shiftent ation/ Shiftent ation/ Shiftent ation/ Shiftent ation/ Shiftent ation/ Shiftent ation/ Shiftent ation/ Shiftent ation/ ation	Output is Monitorin V: Outpu Monitorin s 21-25),1 ion/contri mming ai tput/com nin., Outp liary outpi rol/5V d. municati lazardous) liary outpi rol/5V d. Reveise Reveise liary outpi rol/5V d. Reveise Reveis	s SELV, a ag, SV d.c. t is Haza g (pins –1 5V auxilia ol interfac ad Monitt municatic ut/comm c. – auxilia on/contro c. – auxilia on/contro c. – auxilia pVcARtari kctuomed mbicon P Combico	Ill comm auxiliary rdous, co -3, pins1 iry outpu es-RS232 pon/contro unication unication unication iry outp b/5V d.c. d: 1200VI unication iry outp comment com	unication output a mmunica 4-16), -5V t are Haz /485, IEE joins), 5V /485, IEE joins), 5V /485, IEE joins), 5V /485, IEE joins), 5V /2001001 (control / ut (SELV auxiliary C 1min, /control / ut (SELV auxiliary C 1min, /control / ut (SELV GF-10,16 6/4-GF-10	re SELV ation/con ation/con ardous. I solatec d.c./15V c y outputs auxiliary (Hazardoo): 4242V output Input-Gro (Hazardoo): 4242V Autout Autout (Hazardoo): 4242V Autout Series, hand series, wi ,16 series	trol interf iliary out Models wi I.C. auxiliai (SELV): 4: outputs (S us): 2600V /DC 1mir (SELV): 1: outputs (S UC 1mir (SELV): 1: outputs (S us): 2600V /DC 1mir (SELV):	aces: R52 put are : th 400V ry output 242VDC 1 ELV)-Gro DC 1min, , Outpu 200VDC 1 8VDC 1r DC 1min, , Outpu 200VDC in BVDC 1r in, Outpu 200VDC in BVDC 1r in, Outpu in outpu in relief.	232/485, 1 SELV, Ser Vout 600 s are Haz min, und: 1000 nt/15V d nin, 000V nit/15V d	EEE,Isolated hse, Remote V: Output is ardous. OVDC 1min. .c. auxiliary put/15V d.c. / Vout 600V .c. auxiliary .c. auxiliary .c. auxiliary
Substant voltage Construction Construction Construction Construction Construction Cooling Commissions (WxHxD) Cooling Commissions (WxHxD) Cooling Commissions (WxHxD) Cooling Commissions (WxHxD) Cooling Commissions (With Protective Construction Cooling Construction	cover)	Models L Remote F Models v Analog, L Bemote Program Monitorin Hazardou LAN, Sen Vout 50V Input-Gru 60V Vout Input-Ou Input-Ou Input-Cor output/cc SQXIIISIV commun models: Input-Ou Input-Ou Input-Cor output/cc SQXIIISIV Commun Models: Input-Ou Input-Subar Star Star Star Star Star Star Star St	kith Synthesis and the synthesynthesis and the synthesis and the synthesis and the s	et 50V: ining and Vout 400 ng and 8-13, pin: municat te Progra Input-Ou 28VDC 1n vdels: 'd.c. auxil tion/cont ation/ is): - con ontrol (H 'd.c. auxil tion/cont ation/ Shiftent ation/ Shiftent ation/ Shiftent ation/ Shiftent ation/ Shiftent ation/ Shiftent ation/ Shiftent ation/ Shiftent ation/ Shiftent ation/ Shiftent ation/ Shiftent ation/ Shiftent ation/ ation	Output is Monitorin V: Outpu Monitorin s 21-25),1 ion/contri mming ai tput/com nin., Outp liary outpi rol/5V d. municati lazardous) liary outpi rol/5V d. Reveise Reveise liary outpi rol/5V d. Reveise Reveis	s SELV, a ag, SV d.c. t is Haza g (pins –1 5V auxilia ol interfac ad Monitt municatic ut/comm c. – auxilia on/contro c. – auxilia on/contro c. – auxilia pVcARtari kctuomed mbicon P Combico	Ill comm auxiliary rdous, co -3, pins1 iry outpu es-RS232 pon/contro unication unication unication iry outp b/5V d.c. d: 1200VI unication iry outp comment com	unication output a mmunica 4-16), -5V t are Haz /485, IEE joins), 5V /485, IEE joins), 5V /485, IEE joins), 5V /485, IEE joins), 5V /2001001 (control / ut (SELV auxiliary C 1min, /control / ut (SELV auxiliary C 1min, /control / ut (SELV GF-10,16 6/4-GF-10	re SELV ation/con ation/con ardous. I solatec d.c./15V c y outputs auxiliary (Hazardoo): 4242V output Input-Gro (Hazardoo): 4242V Autout Autout (Hazardoo): 4242V Autout Series, hand series, wi ,16 series	trol interf iliary out Models wi I.C. auxiliai (SELV): 4: outputs (S us): 2600V /DC 1mir (SELV): 1: outputs (S UC 1mir (SELV): 1: outputs (S us): 2600V /DC 1mir (SELV):	aces: R52 put are : th 400V ry output 242VDC 1 ELV)-Gro DC 1min, , Outpu 200VDC 1 8VDC 1r DC 1min, , Outpu 200VDC in BVDC 1r in, Outpu 200VDC in BVDC 1r in, Outpu in outpu in relief.	232/485, 1 SELV, Ser Vout 600 s are Haz min, und: 1000 nt/15V d nin, 000V nit/15V d	EEE,Isolated hse, Remote V: Output is ardous. 0VDC 1min. .c. auxiliary put/15V d.c. V Vout 600V .c. auxiliary
2.5 SAFETY 3. Applicable standards: 2. Interface classification 3. Withstand voltage 3. Insulation resistance 2.6 MECHANICAL CONSTRUCTION 1. Cooling 2. Dimensions (WxHxD) 3. Weight 4. AC Input connector (with Protective Co 5. Output connectors 2.7 AUXILARY OUTPUTS		Models, L Remote F Models v Analog, L Programi Monitorin Hazardou LAN, Sen Vout 50V Input-Gro 60V Vout Input-Ou Input-Co output/cc Subifary commun models: Input-Ou Input-Co output/cc Subifary Commun Models: Input-Ou Input-Co Subifary Singer Singer Singer 3-Phase, 8V to 100	kith Synthesis and the sense of	et 50V: ining and Vout 400 ng and 8-13, pin: municat te Progra Input-Ou 28VDC 1n odels: d.c. auxil id.c. auxil ition/cont ation/ Stricon/ Str	Output is Monitorin V: Outpu Monitorin s 21-25),1 ion/contri mming ar tput/com nin., Outp liary outpi rol/5V d. nmunicati lazardous) liary outpi rol/5V d. mwnicati lazardous) liary outpi rol/5V d. mwnicati lazardous) liary outpi rol/5V d. mynicati lazardous) liary outpi rol/5V d. mynicati lazardous)	s SELV, a ag, 5V d.c. t is Haza g (pins 1 5V auxilia ol interfac ol interfac nd Monito municatic ut/comm c. auxilia on/contro b: -Ground ut/comm c. auxilia vventien c. auxilia vventien thibicon P Combico 10.5mm).	Ill comm auxiliary rdous, co -3, pins1 iry outpu es-RS232 pin/contro unication unication unication unication different bl/5V d.c. d: 1200VI <u>unication</u> iry outp bl/5V d.c. d: 1200VI <u>unication</u> c 6-16(3- n PC 6-16 150V to 6	unication output a mmunica 4-16), 5V t are Haz /485, IEEI oins), 5V l/auxiliar /control/ ut (SELV auxiliary OC 1min, /control/ ut (SELV auxiliary C 1min, /control/ atviliary GF-10,16 j/4-GF-10,00V moc	re SELV ation/con (d.c. aux cardous. / E, Isolatec d.c./15V c y outputs auxiliary (Hazardou): 4242V r output Input-Gro (Hazardou): 4242V r output Input- (Hazardou): 4242	trol interf iliary out Analog, .c. auxiliar (SELV): 4: outputs (S us): 2600V /DC 1mir (SELV): 19 ound: 282 us): 4000V /DC 1mir FLV): 19 ound: 10 ound: 10	aces: R52 put are th 400V ry output 242VDC 1 ELV)-Gro DC 1 min, n, Outpu 200VDC 1 8VDC 1n DC 1 min, n, Outpu RABS; M relief, in relief, in relief,	232/485, I SELV, Ser Vout 600 s are Haz min, und: 1000 tt/15V d Imin,Outp nin. 100V tt/15V d atiab@%I	EEE,Isolated hse, Remote V: Output is ardous. 0VDC 1min. .c. auxiliary put/15V d.c. / Vout 600V .c. auxiliary Augusta Egg. d.c. //N: FRONT-4-H-
2.5 SAFETY Applicable standards: 2.Interface classification 3.Insulation resistance 3.Insulation resistance 2.6 MECHANICAL CONSTRUCTION . Cooling 2. Dimensions (WxHxD) 3. Weight 4. AC Input connector (with Protective Co 5.Output connectors 2.7 AUXILARY OUTPUTS . 15V Output (*8)		Models, L Remote F Models v Analog, L Bemote Programi Monitorin Hazardou LAN, Sen Vout 50V Input-Gro 60V Vout Input-Gro 60V Vout Input-Cou output/co Subifary Commun models: Input-Ou Input-Cou Subifary Commun models: Input-Cou Subifary Commun Models: Input-Cou Subifary Single Ph 3-Phase, 8V to 100	(ith Synthesis and Synthesis a	et 50V: ining and Vout 400 ng and 8-13, pin: municat te Progra Input-Ou 28VDC 1n odels: d.c. auxilition/cont cation/ sis): - cont ontrol (H d.c. auxilition/cont cation/ sis): - cont ontrol (H d.c. auxilition/ sis): - cont d.c. auxilition/ sis): - cont d.c. auxilition/ d.c. auxi	Output is Monitorin X: Outpu Monitorin s 21-25),1 ion/contri mming ar tput/com nin., Outp liary outpi rol/5V d. nmunicati lazardous) liary outpi rol/5V d. mypelia Ne par fridry (2) fox 729°C8 els, Power s (hole Ø ipple & Ne	s SELV, a ag, 5V d.c. t is Haza g (pins 1 5V auxilia ol interfac ad Monito municatic ut/comm c. auxilia on/contro b: -Ground ut/comm c. auxilia vventier combico 10.5mm). pise 100m	III comm auxiliary rdous, co -3, pins1 iry outpu es-RS232 pincontro unication unication unication unication different ol/5V d.c. d: 1200VI unication iry outp ol/5V d.c. d: 1200VI unication c 6-16(3- n PC 6-16 150V to 6	unication output a mmunica 4-16), -5V t are Haz /485, IEEI oins), 5V d l/auxiliar /control / ut (SELV auxiliary OC 1min, /control / ut (SELV auxiliary OC 1min, /control / auxiliary OC 1min, /control / gentication GF-10,16 j/4-GF-10 j00V moc erenced i	re SELV ation/con (d.c. aux cardous. I E, Isolatec d.c./15V c y outputs auxiliary (Hazardou): 4242V r output Input-Gra (Hazardou): 4242V (Hazardou): 4242V (H	trol interf iliary out Analog, .c. auxiliar (SELV): 4: outputs (S us): 2600V /DC 1mir (SELV): 19 ound: 282 us): 4000V /DC 1mir FLU/fthS26 es, etc.) th Strain r , with Stra clamp cor to the neg	aces: R52 put are : th 400V ry output 242VDC 1 ELV)-Gro DC 1 min, n, Outpu 200VDC 1 8VDC 1 min, n, Outpu	232/485, I SELV, Ser Vout 600 s are Haz min, und: 1000 it/15V d Imin,Outp nin. 100V it/15V d ahab@%i it/15V d	EEE,Isolated hse, Remote V: Output is ardous. 0VDC 1min. .c. auxiliary put/15V d.c. / Vout 600V .c. auxiliary Augusta Egg. d.c. //N: FRONT-4-H-
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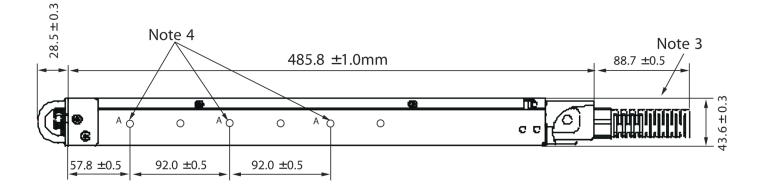
TDK·Lambda

Outline Drawing Genesys[™] 2.4kW Units





TDK·Lambda



NOTE 1. Mating plug supplied with power supply. 2. Bus bars for 8V to 100V models. See Detail 2. Ac cable strain relief supplied with power supply. 4. Chassis slides mounting holes #10-32 marked "A".

GENERAL DEVICES P/N: CC3001-00-5160 or equivalent.



Genesys™ Power Parallel and Series Configurations Parallel operation - Master/Slave:

Active current sharing allows up to four identical units to be connected in an auto-parallel configuration for four times the output power. 1990 0007

In Advanced Parallel Master/Slave Mode, total current is programmed and reported by the Master,

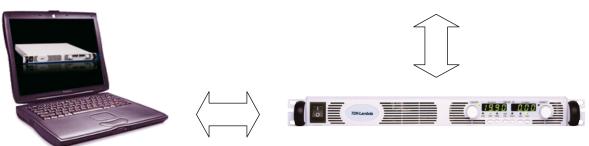
four supplies act as one.

Series operation

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

Remote Programming via RS-232 & RS-485 Interface

Standard Serial Interface allows daisy-chain control of up to 31 power supplies on the same communication bus with built-in RS-232 & RS-485 Interface.



Programming Options (Factory installed) Digital Programming via IEEE

Multi-Drop Interface

• Allows IEEE Master to control up to 30 slaves over RS-485 daisy-chain • Only the Master needs be equipped with IEEE Interface • IEEE 488.2 SCPI Compliant • Program Voltage • Measure Voltage • Over Voltage setting and shutdown • Error and Status Messages • Program Current • Measure Current • Current Foldback

Isolated Analog Programming

Four Channels to Program and Monitor Voltage and Current. shutdown 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 $\pm 1\%$	
	Power supply Voltage and Current Monitoring Accuracy ±1.5%	
C	urrent Programming with 4-20mA signal	

urrent Programming with 4-20mA signal. Power supply Voltage and Current Programming Accuracy $\pm 1\%$ Power supply Voltage and Current Monitoring Accuracy ±1.5%

LAN Interface **L** Compliant to Class C

Meets all LXI-C Requirements

- Address Viewable on Front Panel
- Fixed and Dynamic Addressing
- Compatible with most standard Networks

P/N: IS510

P/N: IS420

P/N: LAN

- VISA & SCPI Compatible
- LAN Fault Indicators
- Auto-detects LAN Cross-over Cable
- Fast Startup

P/N: IEEE



Power Supply Identification / Accessories How to order

GEN	8 -	300	-		-			
Serie s Nam e Models 2.4k	Output Voltage (0 ~ 8V	Output Current (0 ~30 0A)		EEE S51) S42	Factory AC 1P230 (Sin 3P208 (Thr	gle Phase 1	70~265VA	-
Model	Output Voltage VDC	Output Current (A)	Outpu t Power		Model	Output Voltage VDC	Output Current (A)	C t P
GEN 8-300	0~8V	0~300	(W)		GEN 60-40	0~60V	0~40	()
GEN 10-240	0~10V	0~240	2400		GEN 80-30	0~80V	0~30	2
GEN 16-150	0~16V	0~150	2400		GEN 100-24	0~100V	0~24	2
GEN 20-120	0~20V	0~120	2400		GEN 150-16	0~150V	0~16	2
GEN 30-80	0~30V	0~80	2400		GEN 300-8	0~30 0V	0~8	2
GEN 40-60	0~40V	0~60	2400	-	GEN 600-4	0~600V	0~4	2
Factory optic		built-in Star	2400 ndard	P/N -				-24
GPIB Interface	e			IEEE				

Voltage Programming Isolated Analog Interface IS510

Current Programming Isolated Analog Interface/S420

LAN Interface (Complies with Class C) LAN

Accessories

1. Serial Communication cable

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

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

2. Serial link cable*

Daisy-chain up to 31 Genesys[™] power supplies.

Mode	Power Supply Connector	Communication Cable	P/N
RS-485	EIA/TIA-568A (RJ-45)	Shield Ground L=50cm	GEN/R J45
* Included with new or comply	·	•	

* Included with power supply



Also available, Genesys™ 1U Half Rack 750W 1U full Rack 750W/1500W/2400W 2U full Rack 3300W/5000W

2.4kW | **GENESYS™** | **9**

Outpu



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