GEN 1500W SPECIFICATIONS

α	ITDI	TDA	TING

MODEL	GEN	6-200	8-180	12.5-120	20-76	30-50	40-38	50-30	60-25	80-19	100-15	150-10	300-5	600-2.6
1.Rated output voltage (1*)	V	6	8	12.5	20	30	40	50	60	80	100	150	300	600
2.Rated output current (*2)	Α	200	180	120	76	50	38	30	25	19	15	10	5	2.6
3.Rated output power	W	1200	1440	1500	1520	1500	1520	1500	1500	1520	1500	1500	1500	1560

	REV.
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INPUT CHARACTERISTICS	V	6	8	12.5	20	30	40	50	60	80	100	150	300	600	7 [
1.Input voltage/freq. (*3)		85~265Va	c continuo	us, 47~63F	lz, single p	hase.					7.00	1 100	1 000	000	┧┝╌
2.Input current (at 100/200Vac)	A	21/11		***************************************											1
3.Power Factor		0.99@100	0/200Vac, r	ated output	power.	*****		***********							1 🗀
4.Efficiency (*4)	%	77/79	78/81	82/85	83/86	83/86	84/88	84/88	84/88	84/88	84/88	84/88	84/88	84/88	
5.Inrush current at 100/200V	Α	Less than	50A		***************************************								I		

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CONSTANT VOLTAGE MODI	=	V	6	8	12.5	20	30	40	50	60	80	100	150	300	600
1.Max. Line regulation (*5)			0.01% of i	ated outpu	t voltage +	2mV	• • • • • • • • • • • • • • • • • • • •	ł	L	<u> </u>	L	<u> </u>			
2.Max. Load regulation (*6)			0.01% of I	ated outpu	t voltage +:	2mV			***************************************						——————————————————————————————————————
3. Ripple and noise (p-p, 20MH	z) (*10)	mV	60	60	60	60	60	60	60	60	80	80	100	150	300
4.Ripple r.m.s. 5Hz~1MHz	(*10)	mV	8	8	8	8	8	8	8	8	8	8	10	25	60
5.Temperature coefficient		PPM/°C	100PPM/C	C from rate	ed output v	oltage, follo	owing 30 m	inutes warr	n-up.				L	<u> </u>	
6.Temperature drift			0.05% of r	ated Vout	over 8hrs in	nterval follo	wing 30 mi	nutes warn	n-up. Cons	ant line, loa	ad & temp.	·····			
7.Rem. sense compensation/w	ire	V	1	1	1	1	1.5	2	2	3	4	5	5	5	5
8.Up-prog. Response time, 0~	√omax.(*9)	mS				8	0		***************************************			15	50		250
9.Down-prog.response time:	Full load	mS	10		50			8	10			15	50		250
	No load		500	600	700	800	900	1000	1100	1100	1200	1500	2000	2500	4000
10.Transient response time		mS	Time for o	utput voltaç	ge to recov	er within 0.	5% of its ra	ated output	for a load	change 10~	-90% of rat	ed output	current.		
			Output set	-point: 10~	100%.							-			
			Less than	1mS, for m	odels up to	and includ	ding 100V.	2mS, for m	odels abov	e 100V.					
11.Hold-up time		mS	More than	20mS, 100	Vac, rated	output pov	ver.						***************************************		

CONSTANT CURRENT MODE	V	6	8	12.5	20	30	40	50	60	80	100	150	300	600
1.Max. Line regulation (*5)		0.01% of r	ated outpu	t current +:	2mA	***************************************				<u> </u>	L	<u></u>	-	
2.Max. Load regulation (*7)		0.02% of r	ated outpu	t current +	5mA									
3.Ripple r.m.s. 5Hz~1MHz: (*8)	mA	400	360	240	152	125	95	85	75	57	45	35	25	12
4.Temperature coefficient	PPM/OC	100PPM/ ^C	C from rate	ed output c	urrent, folk	wing 30 mi	nutes warn	n-up.	4	·				
5.Temperature drift		0.05% of r	ated lout o	ver 8hrs. ir	iterval follo	wing 30min	utes warm	-up. Const	ant line, loa	d & tempe	rature.			
6. Warm up drift						r 30 minute						current ch	nange	

ANALOG	PROGRAMMING	AND	MONITORING

Vout voltage programming		0~100%, 0~5V or 0~10V, user select. Accuracy and linearity: +/-0.5% of rated Vout.	
2.lout voltage programming		0~100%, 0~5V or 0~10V, user select. Accuracy and linearity: +/-1% of rated lout.	
3.Vout resistor programming		0~100%, 0~5/10Kohm full scale, user select. Accuracy and linearity: +/-1% of rated Vout.	
4.lout resistor programming		0~100%, 0~5/10Kohm full scale, user select. Accuracy and linearity: +/-1.5% of rated lout.	
5.On/off control		By electrical Voltage: 0~0.6V/2~15V or dry contact, user selectable logic.	
6.Output current monitor		0~5V or 0~10V, user selectable. Accuracy: 1%.	,
7.Output voltage monitor		0~5V or 0~10V, user selectable. Accuracy: 1%.	
8.Power supply OK signal		4~5V-OK, 0V-Fail. 500ohm series resistance.	
9.Parallel operation		Possible, up to 4 units in master/slave mode with single wire current balance connection.	
10.Series operation		Possible (with external diodes), up to 2 units.	
11.CV/CC indicator		CV: TTL high (4~5V), source current: 10mA, CC: TTL low (0-0.6V), sink current: 10mA.	
12.Enable/Disable	T	Dry contact. Open: off, Short: on. Max. voltage at Enable/Disable in: 6V.	
13.Local/Remote analog Control		By electrical signal or Open/Short: 0~0.6V or short: Remote, 4~5V or open: Local	-
14.Local/Remote analog Indicator		Open collector. Local: Open, Remote: On. Maximum voltage: 30V, maximum sink current: 5mA	

PROGRAMMING AND READBACK (RS232	7485, Opt	ional IEEE Interface)	
1.Vout programming accuracy		0.05%+0.05% of rated output voltage	
2.lout programming accuracy		0.1%+0.1% of rated output current	
Vout programming resolution		0.012% of full scale	
4. lout programming resolution		0.012% of full scale	
5.Vout readback accuracy		0.1%+0.1% of rated output voltage	
6.lout readback accuracy		0.1%+0.3% of rated output current	
7.Vout readback resolution		0.012% of full scale	
8.lout readback resolution		0.012% of full scale	

DWG. NO.:	,	IAS	75-01-01B
DRAW:	Tres	/	5.11.05
ENGR.:	The	/	5.11.05
CHECK:	Dorow	P.	NOV-15-05
APPR.:	Dorow	P.	NOV- 15-05

GEN 1500W SPECIFICATIONS

PROTECTIVE FUNCTIONS	Γ V	6	8	12.5	20	30	40	50	60	80	100	150	300	600
1.Foldback protection		Output shu	ıt-down wh			L				1 00	100	130	300	000
Over-voltage protection		inverter sh								ication por	command	I	****	
B.Over -voltage trip point	V	0.5~7.5		1~15	1~24	2~36	2~44	5~57	5~66	5~88	5~110	5~165	5~330	5~660
Output under voltage limit		Preset by	front panel	or commu	nication po	rt. Prevent	from adju	sting Vout	pelow limit.		L			
	- 1	Raises the												
Over temperature protection		User selec	table, latch	ned or non	latched.									

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1.Control functions	Vo	out/lout manual adjust by separate encoders (coarse and fine adjustment).	
	OV	/P/UVL manual adjust by Vout. Adjust encoder.	
	Ad	dress selection by Voltage Adjust encoder. No of address:31.	
	Go	to local control.	CONTROLLED COPY
	Ou	itput on/off	TOW I KULLED COPT
	AC	Con/off	24 NOV 2004
	Fro	ont panel lock	24.140 4. 2004
	Fol	ldback control	NII R&D
	Ba	ud rate selection: 1200, 2400, 4800, 9600 and 19200.	The state of the s
	Re	-start modes (automatic restart, safe mode).	
2.Display	Vo	ut: 4 digits, accuracy: 0.5%+/-1 count.	***
	lou	t: 4 digits, accuracy: 0.5%+/-1 count.	
Indications	VO	VOLTAGE, CURRENT, ALARM, FINE, PREVIEW, FOLDBACK, LOCAL, OUTPUT ON.	

ENVIRONMENTAL CONDITIONS

1.Operating temperature		0~50 ^o C, 100% load.	
2.Storage temperature		-20~70°C	
3.Operating humidity	%	30~90% RH (no condensation).	
4.Storage humidity	%	10~95% RH (no condensation).	 -
5.Altitude		Maximum 3000m. Derate output current by 2%/100m above 2000m. Alternatively, derate maximum ambient	
		temperature by 1°C/100m above 2000m.	<u> </u>

MECHANICAL

1.Cooling		Forced air cooling by internal fans.	
2.Weight	Kg	Less than 8.5Kg.	
3.Dimensions (WxHxD)	mm	W: 422.8, H: 43.6, D: 432.8 (Refer to Outline drawing).	
4.Vibration		MIL-810E, method 514.4, test condition I-3.3.1	
5.Shock	T	Less than 20G, half sine, 11mS. Unit is unpacked.	

SAFETY/EMC

Applicable standards:	Safety		UL60950 listed, EN60950. Vout≤60V: Output is SELV, IEEE/Isolated analog are SELV.	
			60≤Vout<400V: Output is hazardous, IEEE/Isolated analog are SELV.	
			400 <vout≤600v: analog="" are="" hazardous,="" ieee="" is="" isolated="" not="" output="" selv.<="" td=""></vout≤600v:>	
	EMC		EN55024	
2.Withstand voltage			Vout≤60V models: Input-Outputs (SELV): 3.0KVrms 1min, Input-Ground: 2.0KVrms 1min.	
			60 <vout≤600v 1min,="" 1min,<="" 2.5kvrms="" 3kvrms="" input-haz.="" input-selv:="" models:="" output:="" td=""></vout≤600v>	
			Hazardous Output-SELV: 1.9KVrms 1min, Hazardous Output-Ground: 1.9KVrms 1min, Input-Ground: 2.0KVrms 1min.	
3.Insulation resistance			More than 100Mohm at 25°C, 70%RH.	
4.Conducted emmision			EN55022B, FCC part 15-B, VCCI-2	
5.Radiated emission			EN55022A, FCC part 15-A, VCCI-1	

NOTES:

- *1: Minimum voltage is guaranteed to maximum 0.2% of rated output voltage.
- *2: Minimum current is guaranteed to maximum 0.4% of rated output current.
- *3: For cases where conformance to various safety standards (UL, IEC, etc...) is required, to be described as 100-240Vac (50/60Hz).
- *4: At 100/200Vac input voltage and maximum output power.
- *5: From 85~132Vac or 170~265Vac, constant load.
- *6: From No-Load to Full-Load, constant input voltage. Measured at the sensing point in Remote Sense.
- *7: For load voltage change, equal to the unit voltage rating, constant input voltage.
- *8: For 6V models the ripple is measured at 2~6V output voltage and full output current. For other models, the ripple is measured at 10~100% output voltage and full output current.
- *9: With rated, resistive load.
- *10 For 6V~300V models: Measured with JEITA RC-9131A (1:1) probe. For 600V model: Measured with 10:1 probe.

DWG. NO.:	/ IA575-01-02A		
DRAW:	Marula 22 TUNE 04		
ENGR.:	Plex Con Tunk 23 4		
CHECK:	Dorum F 5.10-23 04		
APPR.:	DOYON F TOW-23 DU		