OUTPUT RATING	CONTROLLED COPY	GE	EN H 750W	SPECIF	ICATION	S	V								REV.
MODEL	30/05/2006	GEN H	6-100	8-90	12.5-60	20-38	30-25	40-19	60-12.5	80-9.5	100-7.5	150-5	300-2.5	600-1.3	7
1.Rated output voltage(*1)	NJI R&D	V	6	8	12.5	20	30	40	60	80	100	150	300	600	1
2.Rated output current (*2)		A	100	90	60	38	25	19	12.5	9.5	7.5	5	2.5	1.3	1
3.Rated output power	· · · · · · · · · · · · · · · · · · ·	W	600	720	750	760	750	760	750	760	750	750	750	780	
INPUT CHARACTERISTICS		V	Т с	T	T 40.5	T 00	1 00	T 45	T	1 00	1	T	T	T	-,
1.Input voltage/freg. (*3)		V	6 85~265\/ac.co	<u> 8</u> ntinuous, 47∼63	Hz. single phase	20	30	40	60	80	100	150	300	600	4
2.Input current (at 100/200Vac)		A	10.5/5	11(110005, 47 -05)	itz, sirigie priase	;.	·			·					-
3.Power Factor		7		Vac, rated outpu	ıt power									·	4
4.Efficiency (*4)		%	76/78	77/80	81/84	82/85	82/85	83/87	83/87	83/87	83/87	83/87	83/87	83/87	1
5.Inrush current at 100/200V		T A	Less than 25A		1 3.73	1 02:00	02,00	1 00.01	1 00.07	1 00/07	1 00/07	00/07	00/07	03/07	-
			**************************************	····	****										J L
CONSTANT VOLTAGE MODE		V	6	8	12.5	20	30	40	60	80	100	150	300	600	1
1.Max. Line regulation (*5)		***		output voltage +							*	*	<u> </u>	(
2.Max. Load regulation (*6)				output voltage +											
3.Ripple and noise (p-p, 20MHz) (*10)		mV	60	60	60	60	60	60	60	80	80	100	150	300	В
4.Ripple r.m.s. 5Hz~1MHz (*10)		mV	8	8	8	8	8	8	8	8	8	10	25	60	В
5.Temperature coefficient		PPM/°C				g 30 minutes war						· · · · · · · · · · · · · · · · · · ·			
6.Temperature drift			0.05% of rated	Vout over 8hrs i	nterval following	30 minutes warr				Т		· · · · · · · · · · · · · · · · · · ·			
7.Rem. sense compensation/wire 8.Up-prog. Response time, 0~Vomax.(*9)		V	1	1 1	<u> </u>	1 1	1.5	2	3	4	5	5	5	5	
9.Down-prog. response time:	Eulllood	mS mS	- 	Γ	50	80				<u> </u>		50		250	
9.Down-prog.response time.	Full load No load	mo	10 500	600	50 700	800	900	80 1000	1400	1000		50	0.00	250	4
10.Transient response time	INO load	mS				of its rated output		<u> </u>	1100	1200	1500	2000	2500	4000	
10. Transient response time		1110	Output set-poir		ver within 0.5% C	or its rated output	TOF A TOAU CHAIT	ge 10~90% of 18	nea output curre	FIIL.					
			1 '		o and including	100V. 2mS, for m	nodels above 10	ων							l
11.Hold-up time		mS		S, 100Vac, rated	······································	700 7. 21110, 101 11	iodeis above 10	00.				wa			
	: : : : : : : : : : : : : : : : : : :	1	prior trice recent	0, 100 (40, 14,0)	r output power.									/	J L
CONSTANT CURRENT MODE		V	6	8	12.5	20	30	40	60	80	100	150	300	600	
1.Max. Line regulation (*5)			0.01% of rated	output current +	2mA	 		· · · · · · · · · · · · · · · · · · ·	·	1					
2.Max. Load regulation (*7)			0.02% of ratted	output current +	-5mA								······································		
3.Ripple r.m.s. 5Hz~1MHz: (*8)		mA	200	180	120	76	63	48	38	29	23	18	13	8	
4.Temperature coefficient		PPM/ ^O C	······································			30 minutes warr									
5.Temperature drift		***				30minutes warm									
6. Warm up drift			Less than 0.1%	of rated output	current over 30 i	minutes following	power on or ou	tput voltage cha	nge or load curr	ent change			·		С
ANALOG DDOGDARARAING AND BAONITO	ODING														
ANALOG PROGRAMMING AND MONITO	JRING	T	To 1000/ 0 51/										***************************************		1 [
1. Vout voltage programming			·····			and linearity: +/-				***					
2.lout voltage programming		W				and linearity: +/-									
3.Vout resistor programming			0~100%, 0~5/1	0Kohm full scale	, user select. Ac	curacy and linea	rity: +/-1% of rat	ted Vout.							
4.lout resistor programming	·				·	curacy and linea	 	ated lout.							
5.On/off control						act, user selectat	ole 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		-2-	4~5V-OK, 0V-F	ail. 500ohm seri	es resistance.										
9.Parallel operation			Possible, up to	4 units in master	/slave mode with	h single wire curr	ent balance con	nection.				***************************************			
10.Series operation	:	1	Possible (with e	external diodes),	up to 2 units.			****							
11.CV/CC indicator					···	C: TTL low (0-0.6	V), sink current	: 10mA.		***************************************					
12.Enable/Disable						e at Enable/Disal				· · · · · · · · · · · · · · · · · · ·			····		
13.Local/Remote programming control						hort: REM, 4~5\									
14.Local/Remote programming monitor						tage 30V, max sir									
L Local Control of Programming monitor			TOPON CONECCO.	LOO. Open, RE	.w. On, max voit	lage JUV, Illax SII	in Curretti, SIIIA								L
PROGRAMMING AND READBACK (RS23	32/485, Optional IEEE Interface)														
1.Vout programming accuracy			0.05%+0.05% c	of rated output vo	ltage	***************************************									
2.lout programming accuracy	:		0.1%+0.1% of r										"		
Vout programming resolution			0.012% of full s												
4.lout programming resolution			0.012% of full s	cale						· · · · · · · · · · · · · · · · · · ·					
5. Vout readback accuracy			0.1%+0.1% of r	ated output volta	ge								***************************************		
6.lout readback accuracy			0.1%+0.3% of ra		ent										
7.Vout readback resolution	:		0.012% of full so												
8.lout readback resolution			0.012% of full se	cale											
	: : : : : : : : : : : : : : : : : : :														***************************************

DWG. NO.:		IA598-01-01C
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CHECK:	Doron P.	Nov - 15-05
APPR.:	Doron P.	Nov - 15 - 05

GEN H 750W SPECIFICATIONS

V	6 8 12.5 20 30 40 60 80 100 150 300 600
	Output shut-down when power supply change from CV to CC. User presetable.
	Inverter shut-down, manual reset by AC input recycle or by OUT button, or by communication port command.
V	0.5~7.5 0.5~10 1~15 1~24 2~36 2~44 5~66 5~88 5~110 5~165 5~330 5~660
	Preset by front panel or communication port. Prevents from adjusting Vout below limit.
	Raises the PS_OK signal in case of output voltage is below limit.
	User selectable, latched or non latched.
	V

							Λ φ					T
V	6	8	12.5	20	30	40	60	80	100	150	300	600
	Output shut-dov	wn when power s	upply change fr	om CV to CC.	User presetable.							
	Inverter shut-do	own, manual rese	t by AC input re	cycle or by OU	T button, or by co	ommunication po	ort command.					
V	0.5~7.5	0.5~10	1~15	1~24	2~36	2~44	5~66	5~88	5~110	5~165	5~330	5~660
	Preset by front	panel or commun	ication port. Pri	events from adj	usting Vout belov	v limit.						
						<u> </u>						
										· · · · · · · · · · · · · · · · · · ·		
_	V	Inverter shut-do V 0.5~7.5 Preset by front Raises the PS	Inverter shut-down, manual rese V 0.5~7.5 0.5~10 Preset by front panel or commun Raises the PS_OK signal in case	Inverter shut-down, manual reset by AC input re V 0.5~7.5 0.5~10 1~15 Preset by front panel or communication port. Pre Raises the PS_OK signal in case of output volta	Inverter shut-down, manual reset by AC input recycle or by OU V 0.5~7.5 0.5~10 1~15 1~24 Preset by front panel or communication port. Prevents from adj	Inverter shut-down, manual reset by AC input recycle or by OUT button, or by CC V 0.5~7.5 0.5~10 1~15 1~24 2~36 Preset by front panel or communication port. Prevents from adjusting Vout below Raises the PS_OK signal in case of output voltage is below limit.	V 0.5~7.5 0.5~10 1~15 1~24 2~36 2~44 Preset by front panel or communication port. Prevents from adjusting Vout below limit. Raises the PS_OK signal in case of output voltage is below limit.	Inverter shut-down, manual reset by AC input recycle or by OUT button, or by communication port command. V 0.5~7.5 0.5~10 1~15 1~24 2~36 2~44 5~66 Preset by front panel or communication port. Prevents from adjusting Vout below limit. Raises the PS_OK signal in case of output voltage is below limit.	Inverter shut-down, manual reset by AC input recycle or by OUT button, or by communication port command. V 0.5~7.5 0.5~10 1~15 1~24 2~36 2~44 5~66 5~88 Preset by front panel or communication port. Prevents from adjusting Vout below limit. Raises the PS_OK signal in case of output voltage is below limit.	Inverter shut-down, manual reset by AC input recycle or by OUT button, or by communication port command. V 0.5~7.5 0.5~10 1~15 1~24 2~36 2~44 5~66 5~88 5~110 Preset by front panel or communication port. Prevents from adjusting Vout below limit. Raises the PS_OK signal in case of output voltage is below limit.	Output shut-down when power supply change from CV to CC. User presetable. Inverter shut-down, manual reset by AC input recycle or by OUT button, or by communication port command. V 0.5~7.5 0.5~10 1~15 1~24 2~36 2~44 5~66 5~88 5~110 5~165 Preset by front panel or communication port. Prevents from adjusting Vout below limit. Raises the PS_OK signal in case of output voltage is below limit.	Output shut-down when power supply change from CV to CC. User presetable Inverter shut-down, manual reset by AC input recycle or by OUT button, or by communication port command. V 0.5~7.5 0.5~10 1~15 1~24 2~36 2~44 5~66 5~88 5~110 5~165 5~330 Preset by front panel or communication port. Prevents from adjusting Vout below limit. Raises the PS_OK signal in case of output voltage is below limit.

Control functions		Vout/lout manual adjust by separate encoders (coarse and fine adjustment).	
oom or an eneme		Vout and lout ajustment. Foldback, Output on/off locking.	
		OVP/UVL manual adjust by Vout. Adjust encoder.	
		Address selection by Voltage Adjust encoder. No of address:31.	
		Go to local control.	
		Output on/off	
	🖳	AC on/off	
		Foldback control	
		Baud rate selection: 1200, 2400, 4800, 9600 and 19200.	
		Re-start modes (automatic restart, safe mode).	
splay	<u> </u>	Vout: 4 digits , accuracy. 0.5%+/-1 count.	
spiay		lout: 4 digits, accuracy: 0.5%+/-1 count.	
ndications		VOLTAGE, CURRENT, ALARM, FINE, PREVIEW, FOLDBACK, LOCAL, OUTPUT ON.	

ENVIRONMENTAL CONDITIONS			
1 Operating temperature			0~50°C, 100% load.
2.Storage temperature	1 × 4 🗆		-20~70°C
3.Operating humidity	1 4 6 2	%	30~90% RH (no condensation).
<u> </u>		%	10~95% RH (no condensation).
4.Storage humidity 5.Altitude	 		Maximum 3000m. Derate output current by 2%/100m above 2000m. Alternatively, derate maximum ambient temperature by 1°C/100m above 2000m.

MECHANICAL			, , , , , , , , , , , , , , , , , , ,
1. Cooling		Forced air cooling by internal fans.	ļ <u>ļ</u>
2. Weight	Kg	Less than 4.5Kg.	<u> </u>
3 Dimensions (WxHxD)	mm	W; 214.0, H: 43.6 (57.0 Benchtop Version), D: 437.5 (Refer to Outline drawing).	<u> </u>
4. Vibration		MIL-810E, method 541.4, test condit on I-3.3.1]
5 Shock		Less than 20G, halfs sine, 11mS. Unit is unpacked.	J L

SAFETY/EMC 1.Applicable standards:	Safety	 UL60950 listed, EN60950. Vout<60V: Output is SELV, IEEE/Isolated analog are SELV.	
т. хррподого отальна во	ŕ	60 <vout<400v: 400<vout<600v:="" analog="" are="" hazardous,="" ieee="" is="" isolated="" not="" output="" selv.="" selv.<="" th=""><th></th></vout<400v:>	
	EMC	 EN55024	
2.Withstand voltage		 Vout<60V models: Input-Outputs (SELV): 3.0KVrms 1min, Input-Ground: 2.0KVrms 1min.	
2.VVIIIIstana Voltago		60 <vout<600v 1min,="" 1min,<="" 2.5kvrms="" 3kvrms="" cutput:="" input-haz.="" input-selv:="" models:="" td=""><td></td></vout<600v>	
		Hazardous Output-SELV: 1.9KVrms 1min, Hazardous Output-Ground: 1.9KVrms 1min, Input-Ground: 2KVrms 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 the rated output voltage.
- *2: Minimum current is guaranteed to maximum 0.4% of the 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.
- *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.

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