

# GEN H 750W SPECIFICATIONS

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**30/05/2006**  
**N.L.I. R&D**

OUTPUT RATING	MODEL	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	REV.
1. Rated output voltage (*1)	V		6	8	12.5	20	30	40	60	80	100	150	300	600	
2. Rated output current (*2)	A		100	90	60	38	25	19	12.5	9.5	7.5	5	2.5	1.3	
3. Rated output power	W		600	720	750	760	750	760	750	760	750	750	750	780	

INPUT CHARACTERISTICS	V	6	8	12.5	20	30	40	60	80	100	150	300	600	
1. Input voltage/freq. (*3)	---	85~265Vac continuous, 47~63Hz, single phase.												
2. Input current (at 100/200Vac)	A	10.5/5												
3. Power Factor	---	0.99@100/200Vac, rated output power.												
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	83/87
5. Inrush current at 100/200V	A	Less than 25A												

CONSTANT VOLTAGE 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 voltage +2mV												
2. Max. Load regulation (*6)	---	0.01% of rated output voltage +2mV												
3. Ripple and noise (p-p, 20MHz) (*10)	mV	60	60	60	60	60	60	60	80	80	100	150	300	B
4. Ripple r.m.s. 5Hz~1MHz (*10)	mV	8	8	8	8	8	8	8	8	8	10	25	60	B
5. Temperature coefficient	PPM/°C	100PPM/°C from rated output voltage, following 30 minutes warm-up.												
6. Temperature drift	---	0.05% of rated Vout over 8hrs interval following 30 minutes warm-up. Constant line, load & temp.												
7. Rem. sense compensation/wire	V	1	1	1	1	1.5	2	3	4	5	5	5	5	
8. Up-prog. Response time, 0~Vomax (*9)	mS	80											150	250
9. Down-prog. response time:	Full load	10	50			80			150			250		
	No load	500	600	700	800	900	1000	1100	1200	1500	2000	2500	4000	
10. Transient response time	mS	Time for output voltage to recover within 0.5% of its rated output for a load change 10~90% of rated output current. Output set-point: 10~100%. Less than 1mS, for models up to and including 100V. 2mS, for models above 100V.												
11. Hold-up time	mS	More than 20mS, 100Vac, rated output power.												

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												
2. Max. Load regulation (*7)	---	0.02% of rated 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/°C	100PPM/°C from rated output current, following 30 minutes warm-up.												
5. Temperature drift	---	0.05% of rated Iout over 8hrs. interval following 30minutes warm-up. Constant line, load & temperature.												
6. Warm up drift	---	Less than 0.1% of rated output current over 30 minutes following power on or output voltage change or load current change												

ANALOG PROGRAMMING AND MONITORING		
1. Vout voltage programming	---	0~100%, 0~5V or 0~10V, user select. Accuracy and linearity: +/-0.5% of rated Vout.
2. Iout voltage programming	---	0~100%, 0~5V or 0~10V, user select. Accuracy and linearity: +/-1% of rated Iout.
3. Vout resistor programming	---	0~100%, 0~5/10Kohm full scale, user select. Accuracy and linearity: +/-1% of rated Vout.
4. Iout resistor programming	---	0~100%, 0~5/10Kohm full scale, user select. Accuracy and linearity: +/-1.5% of rated Iout.
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	---	Dry contact. Open: off, Short: on. Max. voltage at Enable/Disable in: 6V.
13. Local/Remote programming control	---	By electrical Signal or Open/Short: 0~0.6V or Short: REM, 4~5V or Open: LOC.
14. Local/Remote programming monitor	---	Open collector. LOC: Open, REM: On, max voltage 30V, max sink current: 5mA.

PROGRAMMING AND READBACK (RS232/485, Optional IEEE Interface)		
1. Vout programming accuracy	---	0.05%+0.05% of rated output voltage
2. Iout programming accuracy	---	0.1%+0.1% of rated output current
3. Vout programming resolution	---	0.012% of full scale
4. Iout programming resolution	---	0.012% of full scale
5. Vout readback accuracy	---	0.1%+0.1% of rated output voltage
6. Iout readback accuracy	---	0.1%+0.3% of rated output current
7. Vout readback resolution	---	0.012% of full scale
8. Iout readback resolution	---	0.012% of full scale

DWG. NO.:	IA598-01-01C
DWG.:	<i>[Signature]</i> 15.11.05
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