

LENCORE SPECTRA – i.NET® SOUND MASKING SYSTEM

Power Supply Unit Specifications – Model G14-P320

The Spectra i.Net® Sound Masking System uses a 48 Volt DC power supply unit that features:

- Universal AC input/full range
- Built-in active PFC function, PF>0.95
- Protections: Short circuit/Over load/Over voltage/Over temperature
- Forced air cooling by built-in DC Fan
- Built-in fan speed control
- Fixed switching frequency at 100KHz
- 3 year warranty



TECHNICAL SPECIFICATIONS

OUTPUT	DC VOLTAGE	48V
	RATED CURRENT	6.7A
	CURRENT RANGE	0 ~ 6.7A
	RATED POWER	321.6W
	RIPPLE & NOISE (max.)Note.2	240mVp-p
	VOLTAGEADJ. RANGE	41 ~ 56V
	VOLTAGE TOLERANCENote.3	±1%
	LINE REGULATION	±2%
	LOAD REGULATION	±5%
	SETUP, RISE TIMEHOLD UPTIME(Typ.)	800ms, 50ms/230VAC 2500ms, 50ms/115VAC at full load
SETUP, RISE TIMEHOLD UPTIME(Typ.)	16ms/230VAC 16ms/115VAC at full load	
INPUT	VOLTAGE RANGE Note.5	88 ~ 264VAC 124 ~ 370VDC
	FREQUENCY RANGE	47 ~ 63Hz
	POWER FACTOR (Typ.)	PF>0.95/230VAC PF>0.98/115VAC at full load
	EFFICIENCY (Typ.)	0.89
	AC CURRENT(Typ.) 115VAC	5A
	AC CURRENT(Typ.) 230VAC	2.5A
	INRUSH CURRENT(Typ.)	20A/115VAC 40A/230VAC
PROTECTION	OVERLOAD	105 ~ 135% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed
	OVER VOLTAGE	57.6 ~ 67.2V Protection type : Shut down o/p voltage, re-power on to recover
	OVER TEMPERATURE	805(7053.3V,5V only) (TSW1 : detect on heatsink of power transistor) Protection type : Shut down o/p voltage, recovers automatically after temperature goes down
ENVIRONMENT	WORKING TEMP.	-20 ~ +65(Refer to output load derating curve)
	WORKING HUMIDITY	20 ~ 90% RH non-condensing
	STORAGE TEMP., HUMIDITY	-40 ~ +85, 10 ~ 95% RH
	TEMP. COEFFICIENT	±0.03%/°C(0 ~ 50°C)
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X,Y, Z axes
SAFETY&EMC (Note 4)	SAFETYSTANDARDS	UL60950-1,TUV EN60950-1, CCC GB4943 approved
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC/ 25/ 70% RH
	EMI CONDUCTION & RADIATION	Compliance to EN55022 (CISPR22) Class B
	HARMONIC CURRENT	Compliance toEN61000-3-2,-3
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, light industry level, criteriaA
OTHERS	MTBF	207K hrs min. MIL-HDBK-217F (25°C)
	DIMENSION	215*115*50mm (L*W*H)
	PACKING	1.1Kg; 12pcs/14Kg/0.92CUFT
NOTE	<ol style="list-style-type: none"> 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. The power supply is considered a component which will be installed into a final equipment. The final equipment mustbe re-confirmed that it still meetsEMC directives. 5. Derating may be needed under low input voltages. Please check the derating curve for more details. 	