

CROSSNET-ONE™ SOUND MASKING SYSTEM

Power Supply Unit Specifications – Model #G14

The CrossNetOne™ Sound Masking System uses a 48 Volt DC power supply unit that features:

- Universal AC input/full range
- Built-in active PFC function, PF>0.93
- Protections: Short circuit/Over load/Over voltage/Over temperature
- Built-in constant current limiting circuit
- Remote ON-OFF control (Optional)
- LED indicator for power on
- 100% full load burn-in-test
- Fixed switching frequency at PFC:67KHz PWM:134KHz
- 3 year warranty



TECHNICAL SPECIFICATIONS

OUTPUT:

DC Voltage	48V
Rated Current	3.2A
Current Range	0-3.2A
Rated Power	153.6W
Ripple & Noise (max)	250mVp-p
Voltage Adj. Range	45.6 – 52.8V
Voltage Tolerance	±1.0%
Line Regulation	±0.5%
Load Regulation	±0.5%

INPUT:

Voltage Range	85-264 VAC 120-370VDC
Frequency Range	47-63HZ
Power Factor (Typ.)	PF>0.93/230VAC PF>0.98/115VAC at full load
Efficiency (Typ.)	84%
AC Current	2.5A/115VAC 1.2A/230VAC
Inrush Current (Typ.)	Cold Start 40A/230VAC
Leakage Current	<2mA/240VAC

PROTECTION:

Overload	105-150% rated output power
Over Voltage	52.8 – 64.8V
Over Temp.	95°C±5°C (TSW1:Detect on heatsink of power transistor)

FUNCTION:

Remote Control	CN1:4-10VDC Power On, <0 – 0.8DC Power Off
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ENVIRONMENT:

Working Temp.	-10+60°C (Refer to output load derating curve)
Working Humidity	20-90% RH non-condensing
Storage Temp. Humidity	-20+85°C, 10-95% RH
Temp. Coefficient	±0.05%/°C (0-50°C)
Vibration	10-500Hz, 2G 10min/1 cycle) 60min, each along X,Y,Z axes

SAFETY & EMC:

Safety Standards	UL60950-1, TUV EN55022 and S-MARK J60950 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:100M Ohms/500VDC
EMI Conduction & Radiation	Compliance to EN55022 (CISPR22) Class B
Harmonic Current	Compliance to EN61000-3-2,-3
EMS Immunity	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, ENV55024, Light Industry level, criteria A
MTBF	191.2K hrs. min. MIL-HDBK-217F (25°C)
Dimension	199*99*50mm (L*W*H)
Packing	0.76Kg; 20pcs/16.4Kg/1.28CUFT

Other Systems Also Available
Spectra i.Net™ (Networked) Spectra®,
CrosswaysOne™

In-plenum and direct fired
all available with page/music.