PSF-125 Series 125 Watt Embedded Power Supply



Features

- Universal AC input / Full range
- Built-in active PFC function, PF>0.95
- High power density, high efficiency and reliability
- Output protections: OLP/OVP/SCP
- Wide operating ambient temperature (-20°C ~ 70°C)

• Built-in remote sense function

- All using 105°C long life electrolytic capacitors
- 100% full load burn-in test
- 3 year warranty

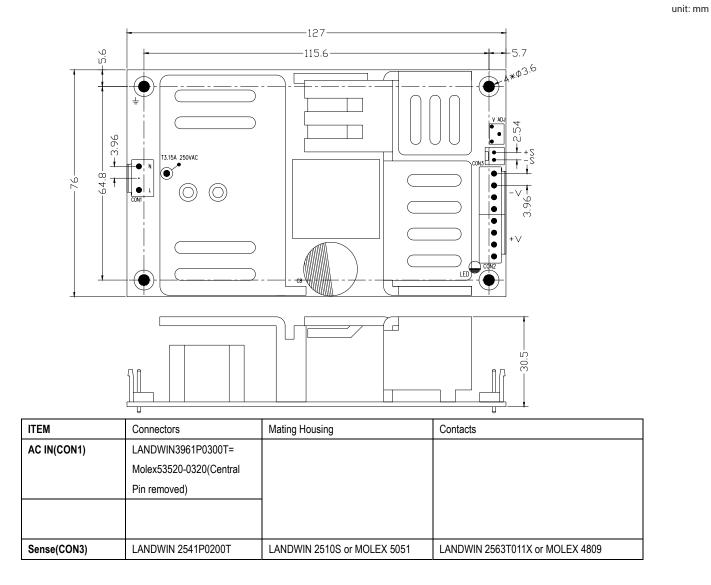


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Specifications		PSF-125-5	PSF-125-12	PSF-125-15	PSF-125-24	PSF-125-48	
OUTPUT	DC Output		5.0V	12.0V	15.0V	24.0V	48.0V
	Rated Current		20A	10.5A	8.4A	5.2A	2.6A
	Current Range		0~20A	0~10.5A	0~8.4A	0 ~ 5.2A	0~2.6A
	Ripple and Noise (NOTE 1)		< 100mV	< 100mV	< 100mV	< 100mV	< 150mV
	Voltage ADJ. Range		4.5 ~ 5.7V	10.6 ~ 13.4V	12.9 ~ 17.0V	24.7 ~ 27.0V	43.0 ~ 53.7V
	Voltage Accuracy		±2.0%	±2.0%	±2.0%	±2.0%	±2.0%
	Line Regulation		±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	Load Regulation		±2.0%	±2.0%	±2.0%	±2.0%	±2.0%
	Set-up Time		≤ 1.2S (230Vac input, Full load) < 2.5S (115Vac input, Full load)				
	Hold up Time		≥ 20mS (115/230Vac input, Full load)				
	Temperature Coefficient		±0.03%/°C				
	Overshoot and Undershoot		< 5.0%				
INPUT	Voltage Range		90Vac ~ 264Vac, 127Vdc ~ 370Vdc				
	Frequency Range		47Hz – 63Hz				
	Power Factor (Typical)		PF > 0.98@115VAC PC > 0.95@230VAC				
	Efficiency (Typical)	115Vac input	83%	85%	85%	86%	86%
		230Vac input	85%	87%	87%	88%	88%
	AC Current (Max)		< 1.5A				
	Inrush Current (Typical)		< 60A@230Vac < 30A@115Vac Cold Start				
	Leakage Current		< 3.5mA				
PROTECTION	Over Current		105% ~ 150% of rated output current, hiccup mode, auto recovery				
	Over Voltage		120% ~ 150% of rated output voltage, hiccup mode				
	Shorted Circuit		Long-term mode, auto recovery				
ENVIRONMENT	Operating Ambient Temp. & Hum.		-25°C ~ 70°C; 20% ~ 90%RH No Condensing (refer to the derating curve)				
	Storage Temp. & Hum.		-40°C ~ 85°C; 10% ~ 95%RH No Condensing				
SAFETY & EMC (NOTE 3)	Safety Standards		UL60950-1; EN60950-1: 2006				
	Withstand Voltage		Primary – Secondary: 3.0KVac; ≤10mA Primary – PG:1.5KVac; ≤10mA Secondary – PG:0.5KVDC; ≤10m				
	Isolation Resistance		≥100M ohms				
	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, light industry level, criteria A				
OTHERS	MTBF (MIL-HDBK-217F)		More than 100,000Hrs (25°C, Full load)				
	Dimension (L*W*H)		127 x 76 x 30.5 mm				
	Packing		21PCS/CTN, 8.4KGS, 0.015CBM				
	Cooling Method		Cooling by free air convection				
NOTE	2. Measured at 20MHz of	bandwidth by usin	e measured at 230Vac rated input, rated load and 25°C of ambient temperature a 12″ twisted pair-wire terminated with a 0.1 uF & 47uF parallel capacitor will be installed into final equipment. The equipment must be re–confirmed that it still meets EMC directives				
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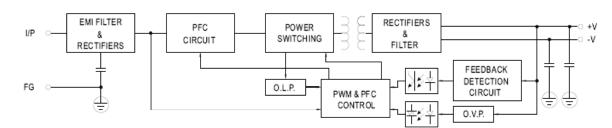
Mechanical Specification



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Block Diagram



Derating Curve

