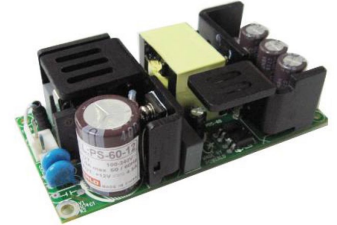


60 Watt Embedded Power Supply

Features

- Universal AC input / Full range
- High efficiency, low power consumption
- No load power consumption $\leq 0.5W$
- Output protections: SCP/OVP/OLP
- Wide operating ambient temperature (-25°C ~ 70°C)
- All using 105°C long life electrolytic capacitors
- 100% full load burn-in test
- 3 year warranty



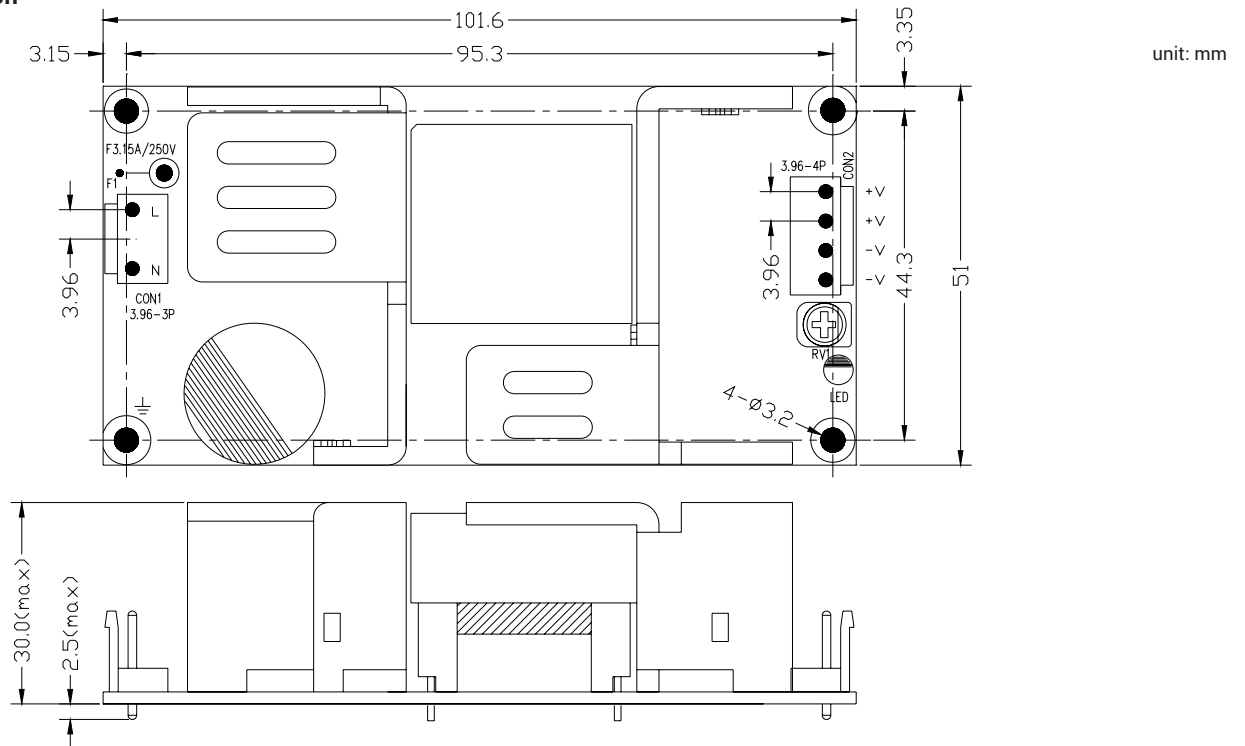
Specifications

		PS-60-5	PS-60-12	PS-60-15	PS-60-24	PS-60-48	
OUTPUT	DC Output	5.0V	12.0V	15.0V	24.0V	48.0V	
	Rated Current	8.0A	4.5A	3.6A	2.5A	1.25A	
	Ripple and Noise (NOTE 1)	0°C ~ 70°C	< 50mV	< 120mV	< 120mV	< 120mV	< 240mV
		-25°C ~ 0°C	< 200mV	< 300mV	< 300mV	< 300mV	< 360mV
	Voltage ADJ. Range	4.5 ~ 5.5V	11.2 ~ 13.4V	13.8 ~ 16.5V	22.2 ~ 27.9V	45.0 ~ 53.2V	
	Voltage Accuracy	±3.0%					
	Line Regulation	±0.5%					
	Load Regulation	±2.0%					
	Set-up Time	≤ 1.0S (230Vac input, Full load)					
	Hold up Time	≥ 20mS (230Vac input, Full load)					
	Temperature Coefficient	±0.03%/°C					
Overshoot and Undershoot	< 5.0%						
INPUT	Voltage Range (NOTE 2)	90Vac ~ 264Vac, 127Vdc ~ 370Vdc					
	Frequency Range	47Hz – 63Hz					
	Efficiency (Typical)	115Vac input	79%	83%	84%	87%	85%
		230Vac input	82%	85%	85%	87%	88%
	AC Current (Max)	< 1.5A					
	Inrush Current (Typical)	< 30A@120Vac	< 60A@230Vac	Cold Start			
Leakage Current	< 0.25mA						
PROTECTION	Over Load	105% ~ 180% of rated output current, hiccup mode, auto recovery					
	Over Voltage	110% ~ 150% of rated output voltage, constant voltage					
	Shorted Circuit	Long-term mode, auto recovery					
ENVIRONMENT	Operating Amb. 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					
	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 200,000Hrs (25°C, Full load)					
	Dimension (L*W*H)	101.6 x 50.8 x 30 mm					
	Packing	60PCS/CTN, 12KGS, 0.024CBM					
	Cooling Method	Cooling by free air convection					

NOTE

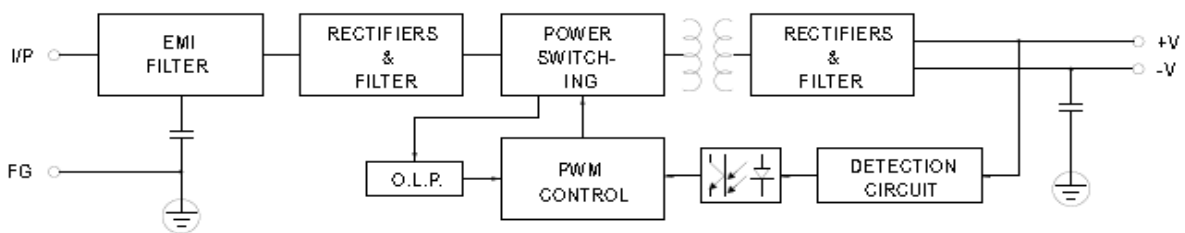
1. All parameters NOT specially mentioned are measured at 230Vac input, rated load and 25°C of ambient temperature
2. Measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 uF & 10uF parallel capacitor
3. The SPS is considered a component which will be installed into final equipment. The equipment must be re-confirmed that it still meets EMC directives

Mechanical Specification



Item	Connectors	Mating Housing	Contacts
AC IN(CON1)	LANDWIN3961P0300T =Molex53520-0320(Central Pin removed)	LANDWIN 3960S or JST VHR or Molex 51144	LANDWIN 3963T011R or JST SVH-21T-P1.1 Or Molex 50539
DC OUT(CON2)	LANDWIN 3961P0400T =Molex53520-0420		

Block Diagram



Derating Curve

