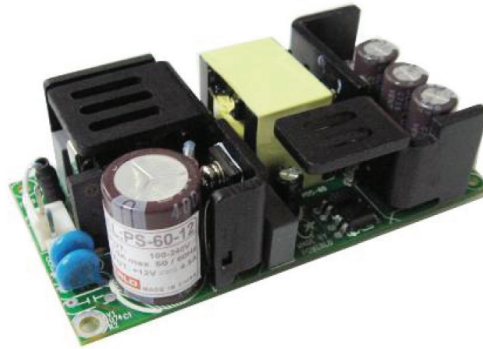


PS-60 Series

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

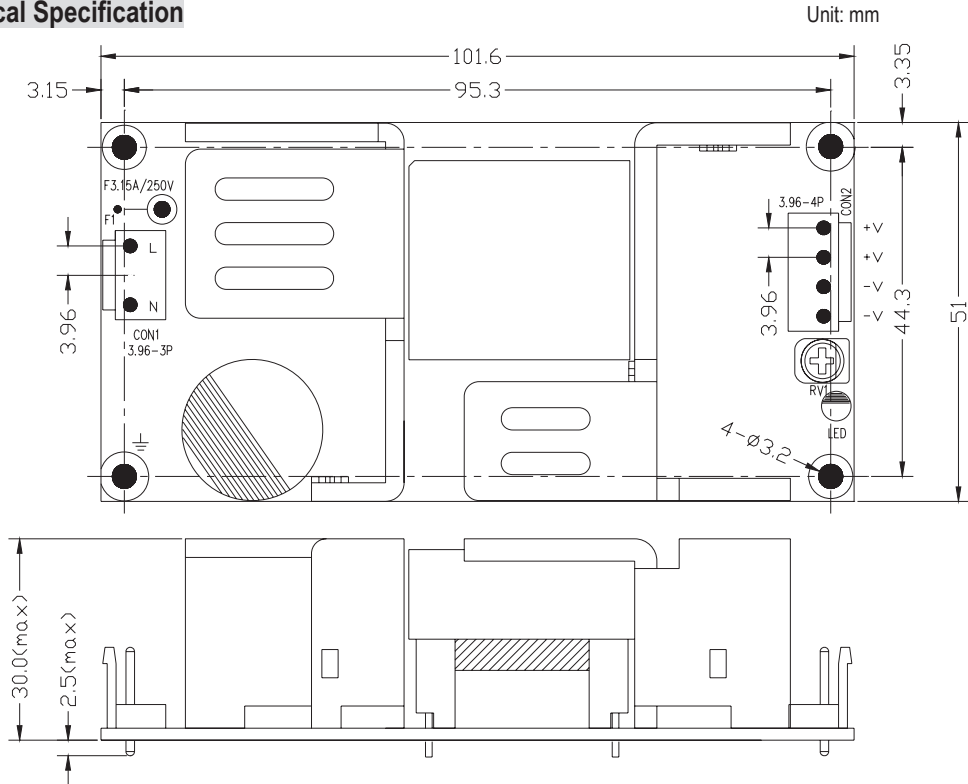


SPECIFICATIONS



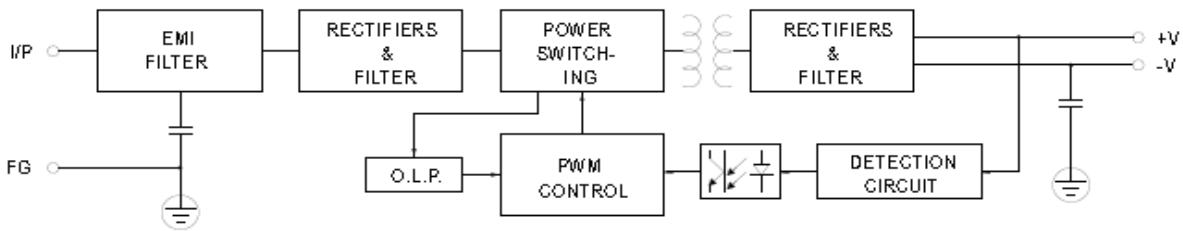
| MODEL | | PS-60-5 | PS-60-12 | PS-60-15 | PS-60-24 | PS-60-48 | |
|--------------------------|---|--|--------------|---|--------------|--------------|---------|
| OUTPUT | DC Output | 5.0V | 12.0V | 15.0V | 24.0V | 48.0V | |
| | Rated Current | 8.0A | 4.5A | 3.6A | 2.5A | 1.25A | |
| | Ripple and Noise (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

