



Features:

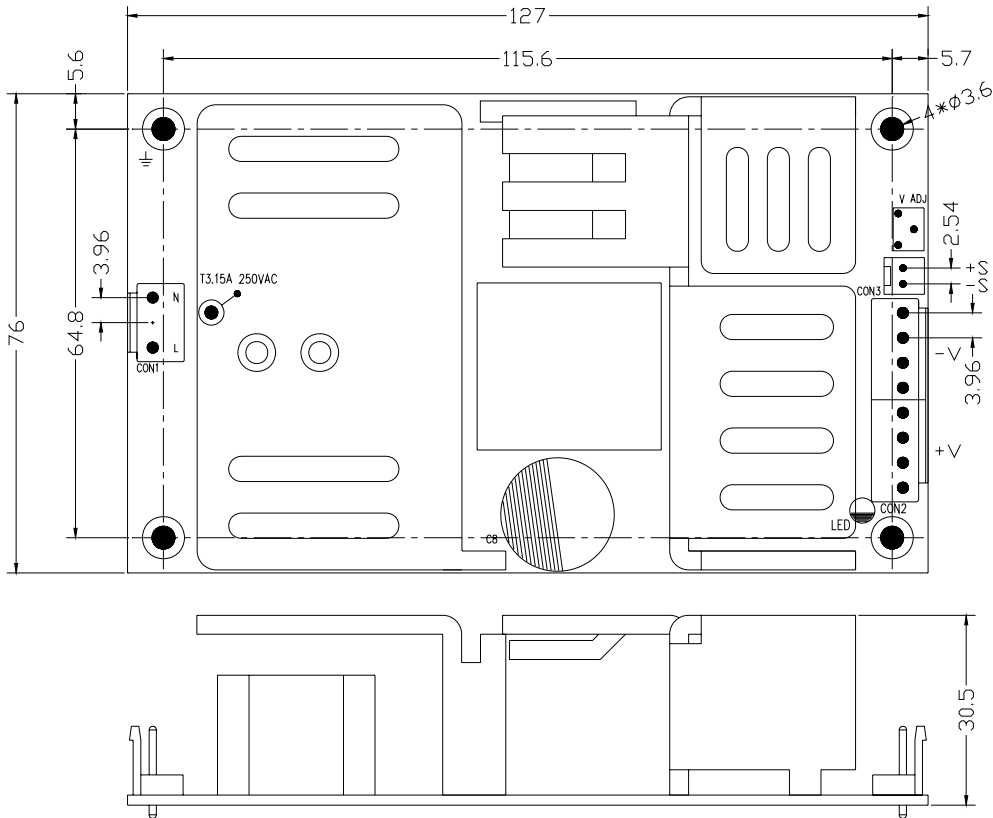
- Universal AC input/ Full range
- Built-in active PFC function, PF>0.95
- High power density, High efficiency and reliability
- Output protections: OLP/OVP/SCP
- Wide operating ambient temperature (-20°C -60°C)
- Build-in remote sense function
- All using 105°C long life electrolytic capacitors.
- 100% full load burn-in test
- 3 years warranty

SPECIFICATION

| MODEL | | PSF-125-5 | PSF-125-12 | PSF-125-15 | PSF-125-24 | PSF-125-48 | |
|------------------------|----------------------------|--|-------------|---------------------------------|------------|------------|-----|
| OUTPUT | DC Output | 5V | 12V | 15V | 24V | 48V | |
| | 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 2 | <100mV | <100mV | <100mV | <100mV | <150 mV | |
| | 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 | | PF>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 | | | | | |
| | Short Circuit | Auto recovery | | | | | |
| ENVIRONMENT | Operating ambTemp & Hum | -20°C ~60°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; ≤10mA . | | | | | |
| | Isolation Resistance | >100M ohms | | | | | |
| | EMI Conduction & Radiation | Compliance to EN55022(CISPR22)Class B | | | | | |
| | Harmonic Current | Compliance to EN61000-3-2,-3 | | | | | |
| OTHERS | EMS Immunity | Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, light industry level, criteria A | | | | | |
| | MTBF (MIL-HDBK-217F) | More than 100,000Hrs (25°C, Full load) | | | | | |
| | Dimension (L*W*H) | 127×76×30.5mm | | | | | |
| | Packing | 21PCS/CTN, 8.46KGS, 0.015CBM | | | | | |
| NOTE | Cooling method | Cooling by free air convection | | | | | |
| | | 1. All parameters NOT specially mentioned are measured at 230Vac rated 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 & 47uF 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. | | | | | |

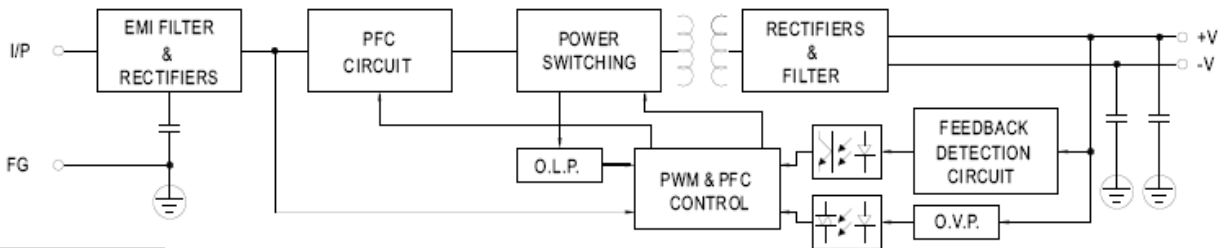
Mechanical Specification

Unit: mm



| ITEM | Connectors | Mating Housing | Contacts |
|--------------|--|---|--|
| AC IN(CON1) | LANDWIN3961P0300T(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 3961P0800T | | |
| Sense(CON3) | LANDWIN 2541P0200T | LANDWIN 2510S or MOLEX 5051 | LANDWIN 2563T011X or MOLEX 4809 |

Block Diagram



Derating Curve

