



■ Features:

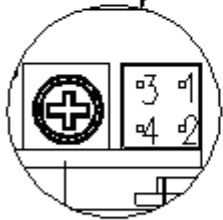
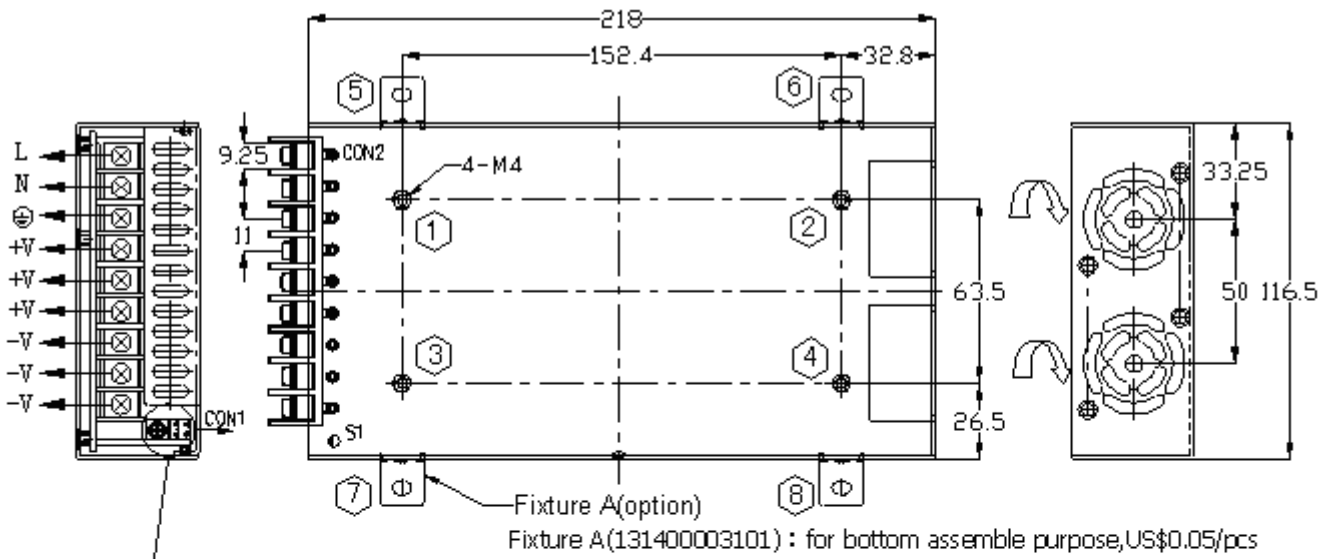
- Universal AC input/ Full range
- Built-in active PFC function, PF>0.96
- Using ZVS technology to reduce power dissipation
- Built in Fan speed control and over temp. protection
- Built in AC inrush current limiting circuit(<20A)
- Built in constant current limiting circuit
- Built in Remote Sense Function
- Built in DC OK signal
- Wide operating ambient temperature (-30°C ~70°C)
- Conformal coating at PCB both sides
- 1 U low profile, 41mm
- 3 years warranty

SPECIFICATION

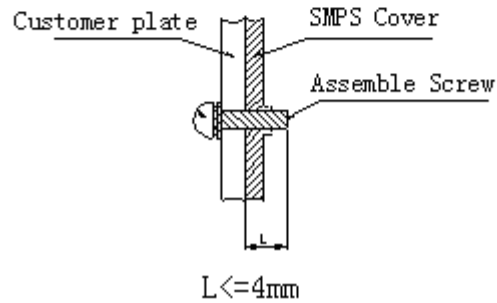
| MODEL | | SPL-480-1121 | SPL-480-1241 | SPL-480-1271 | SPL-480-1361 | SPL-480-1481 | |
|--------------------------|---|--------------|--|--------------|--------------|--------------|-------|
| OUTPUT | DC Output | 12V | 24V | 27V | 36V | 48V | |
| | Rated Current | 34A | 22A | 18A | 14A | 11A | |
| | Current Range | 0~34A | 0~22A | 0~18A | 0~14A | 0~11A | |
| | Ripple and Noise | 0-70°C | 120mV | 150mV | 150mV | 150mV | 200mV |
| | | Note 2 -30°C | 180mV | 150mV | 150mV | 150mV | 200mV |
| | Voltage ADJ. Range | | -5%~+10% of rated output voltage | | | | |
| | Voltage Accuracy | | ±2.0% | ±2.0% | ±2.0% | ±2.0% | ±2.0% |
| | Line Regulation | | ±0.5% | ±0.5% | ±0.5% | ±0.5% | ±0.2% |
| | Load Regulation | | ±1.0% | ±1.0% | ±1.0% | ±1.0% | ±1.0% |
| | Set-up Time | | <1.5S (230Vac input, Full load), <3S (115Vac input, Full load) | | | | |
| | Hold up Time | | >16mS/ (230Vac input, Full load) | | | | |
| | Temperature Coefficient | | ±0.05%/°C | | | | |
| INPUT | Voltage Range | | 90Vac~264Vac | | | | |
| | Frequency Range | | 47Hz~63Hz | | | | |
| | Power Factor(Typical) | | PF>0.98/115VAC PF>0.96/230VAC | | | | |
| | Efficiency (Typical) | | 88% | 89% | 89% | 90% | 90% |
| | AC Current (max.) | | <9A | | | | |
| | Inrush Current (Typical) | | <20A@230Vac Cold start | | | | |
| | Leakage Current | | Input—output: ≤0.25mA Input—PG: ≤3.5mA | | | | |
| PROTECTION | Over Load | | 110%~135% of rated output current, constant current | | | | |
| | Over Temperature | | 105°C+5°C (detect on Mosfet temperature); shut down, auto recovery after the temperature goes down to 75°C | | | | |
| | Over Voltage | | 110%~150% of rated voltage; constant voltage | | | | |
| | Short Circuit | | Long-term mode, constant current, auto recovery | | | | |
| ENVIRONMENT | Operating amb. Temp. & Hum. | | -30°C~70°C; 20%~90%RH No condensing (refer to derating curve) | | | | |
| | Storage Temp. & Hum. | | -40°C~85°C; 10%~95%RH No condensing | | | | |
| SAFETY & EMC (Note 3) | Safety Standards | | UL60950-1 2nd Ed; IEC 60950-1:2005(2nd Ed); EN60950-1:2006 | | | | |
| | Withstand Voltage | | Primary-Secondary:3.0KVac; ≤10mA .Primary-PG:1.5KVac; ≤10mA. Secondary-PG:0.5KVac; ≤10mA. | | | | |
| | Isolation Resistance | | ≥100M ohms | | | | |
| | EMI Conduction&Radiation | | Compliance to EN55022, CLASS B | | | | |
| | Harmonic Current | | Compliance to EN61000-3-2, class D | | | | |
| OTHERS | EMS Immunity | | Compliance to EN61000-4-2,3,4,5,6,8,11; heavy industry level | | | | |
| | MTBF (MIL-HDBK-217F) | | More than 200,000Hrs (25°C, Full load) | | | | |
| | Dimension (L*W*H) | | 218x116.5x41mm (*SPL-480-1121 dimension is 226x116.5x41mm) | | | | |
| | Packing | | 6PCS/CTN, 8.7KGS, 0.04CBM | | | | |
| NOTE | Cooling method | | Forced air cooling(Built-in fan) | | | | |
| | <ol style="list-style-type: none"> All parameters NOT specially mentioned are measured at rated input, rated load and 25°C of ambient temperature. Measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 uF & 47uF parallel capacitor. The SMPS 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



| Position | Function |
|----------|------------------|
| 1 | +S(Remote Sense) |
| 2 | -S(Remote Sense) |
| 3 | DC-OK |
| 4 | GND |



■ **Block Diagram**

