POWERLD 50Watts Single Output



■ Features:

- No Load power consumption<0.5W</p>
- Universal AC input range (88~264Vac)
- Miniature size, high power density, high efficiency, long life and high reliability
- Withstand 300VA surge input for 5 sec.
- Output protections: OLP/OVP/SCP
- Wide operating ambient temp (-25 $^{\circ}$ C ~70 $^{\circ}$ C)
- ➤ All using 105°C long life electrolytic capacitors.
- > 100% full load burn-in test
- Easy assembling from top side
- PCB soldering side with conformal coating
- > Suitable for critical applications
- 3 years warranty

SPECIFICATION

| MODEL | | | PD-50-5 | PD-50-12 | PD-50-15 | PD-50-24 | PD-50-48 |
|-----------------------|--|-------------|---|------------|-------------|------------|-------------|
| OUTPUT | DC Output | | 5V | 12V | 15V | 24V | 48V |
| | Rated Current | | 8A | 4.2A | 3.4A | 2.2A | 1.12A |
| | Current Range | | 0~8A | 0~4.2A | 0~3.4A | 0~2.2A | 0~1.12A |
| | Ripple and | 0~70℃ | <80mV | <120mV | <120mV | <200mV | <200 mV |
| | Noise Note 2 | -25-0°C | <80mV | <200mV | <200mV | <300mV | <500mV |
| | Voltage ADJ. F | Range | 4.75~5.5V | 11.4~13.2V | 14.25~15V | 22.8~26.4V | 45.6~52.8V |
| | Voltage Accuracy | | ±3.0% | | | | |
| | Line Regulation | | ±0.5% | | | | |
| | Load Regulation | | ±1.0% | | | | |
| | Set-up Time | | <1.5S (230Vac input, Full load) | | | | |
| | Hold up Time | | >50mS(230Vac input, Full load) | | | | |
| | Temperature Coefficient | | ±0.03%/°C | | | | |
| | Overshoot and Undershoot | | <5.0% | | | | |
| INPUT | Voltage Range | | 88Vac~264Vac, 127~370Vdc | | | | |
| | Frequency Rang | | 47Hz~63Hz | 1 | | | |
| | Efficiency | 115Vacinput | 79% | 82.5% | 83.5% | 85% | 86.5% |
| | (Typical) | 230Vacinput | 80% | 84.5% | 85.5% | 87% | 88.5% |
| | AC Current (max.) | | <1.3A | | | | |
| | Inrush Current (Typical) | | <45A@230Vac Cold start | | | | |
| | Leakage Current | | Input—output:<0.25mA Input—PG:<3.5mA (input 264Vac, 63Hz) | | | | |
| PROTECTION | Over Load | | 8.4~12A | 4.41~6.3A | 3.57~5.1A | 2.31~3.3A | 1.155~1.65A |
| | | | Protection type: 5V is hiccup mode, rest are constant power, auto recovery | | | | |
| | Over Voltage | | 5.75~7.5V | 13.8~18V | 17.25~22.5V | 27.6~36V | 55.2~72V |
| | | | Protection type: constant voltage, auto recovery | | | | |
| | Short Circuit | | Long-term mode, auto recovery | | | | |
| ENVIRONMENT | Operating amb. Temp. & Hum. | | -25 ℃~70 ℃; 20%~90%RH No condensing (refer to the derating curve) | | | | |
| | Storage Temp. & Hum. | | -40 ℃~85 ℃; 10%~95%RH No condensing | | | | |
| SAFETY &EMC Note 3 | Safety Standards | | UL62368-1 ; IEC62368-1; EN62368-1 | | | | |
| | Withstand Voltage | | Primary-Secondary: 3.0KVac/10mA .Primary-PG:1.5KVac/10mA . Secondary-PG: 0.5KVDC/10mA . | | | | |
| | Isolation Resistance | | 100M ohms | | | | |
| | EMC Emission | | Compliance to EN55032 Class B | | | | |
| | EMC Immunity | | Compliance to EN61000-4-2,3,4,5,6,8,11; heavy industry level | | | | |
| OTHERS | MTBF (MIL-HDBK-217F) | | More than 200,000Hrs (25°C, Full load) | | | | |
| | Dimension (L*W*H) | | 99×82×35mm | | | | |
| | Packing | | 40PCS/CTN, 12.8KGS, 0.043CBM | | | | |
| NOTE | Cooling method Cooling by free air convection 1. All parameters NOT specially mentioned are measured at 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 & 10uF parallel capacitor. 3. The power supply is considered as a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies" on http://www.powerld.com.cn . | | | | | | |

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