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| PART NUMBER | HDP-O-200 Series |
| DESCRIPTION | 200 Watt Open Frame Power Supply |

HDP-O-200 Series 200 Watt Open Frame Power Supply

Features

- Universal AC input / Full range
- Built-in Active PFC function
- Withstand 300Vac surge input for 5 sec.
- High efficiency up to 90% (typ)
- Output protections: OLP/OVP/SCP/OPP
- Wide operating ambient temperature (-20°C ~ 70°C)
- All using 105°C long life electrolytic capacitors
- Free air convection for 150W and 200W with 20.5CFM forced air
- 100% full load burn-in test
- 5" x 3" compact size
- 3 year warranty



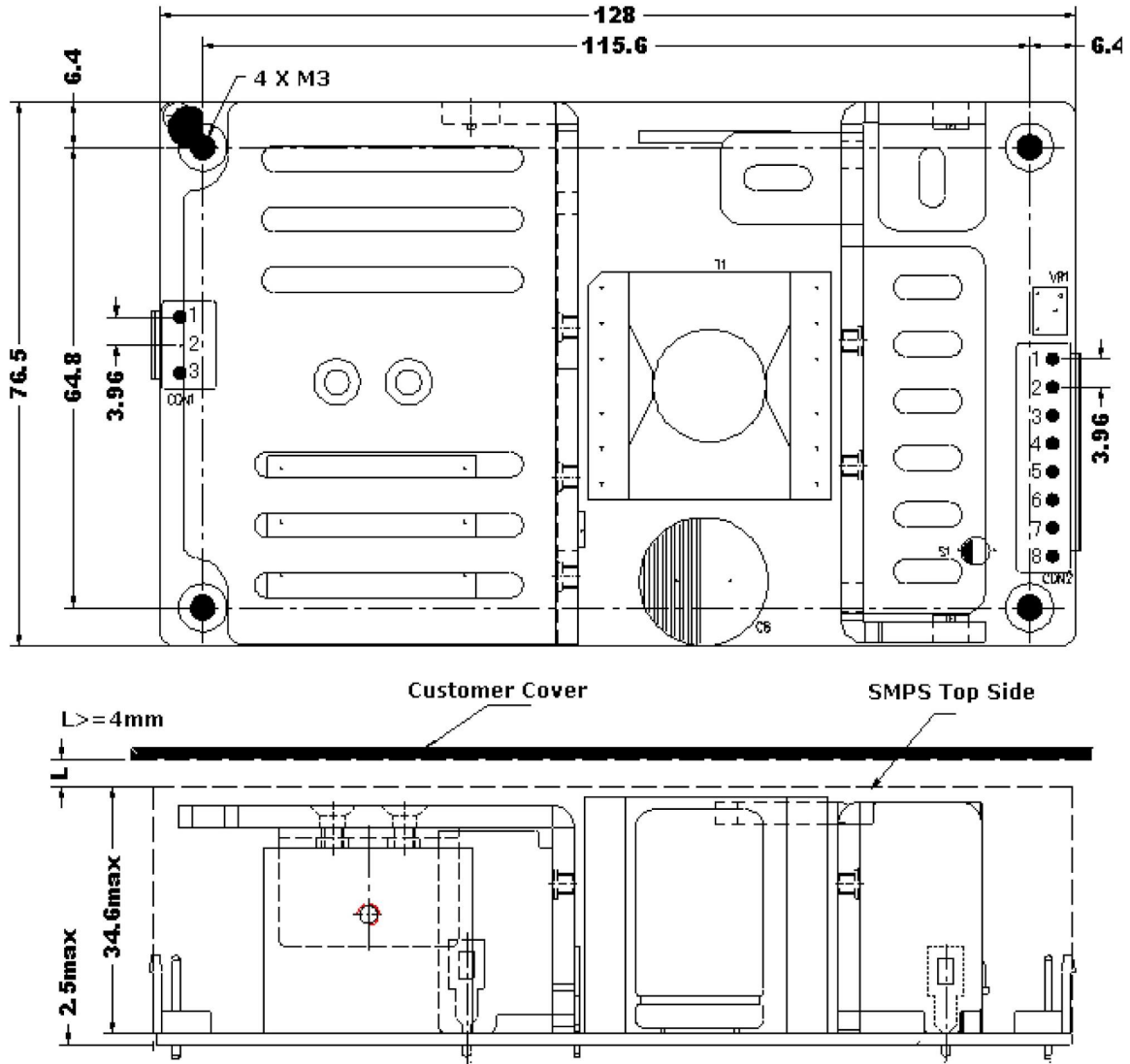
Specifications

| | | HDP-O-200-12 | HDP-O-200-24 | HDP-O-200-48 |
|-----------------------|--|---|--------------|------------------|
| OUTPUT | DC Output | 12V | 24V | 48V |
| | Rated Current | 16.6A | 8.4A | 4.167A |
| | Current Range (convection) | 0 ~ 12.5A | 0 ~ 6.25A | 0 ~ 3.13A |
| | Current Range (20.5CFM fan) | 0 ~ 16.6A | 0 ~ 8.4A | 0 ~ 4.167A |
| | Ripple and Noise (NOTE 2) | 100mVp-p | 150mVp-p | 250mVp-p |
| | Voltage ADJ. Range | ±10% of rated output load | | |
| | Voltage Accuracy | ±1.0% | | |
| | Line Regulation | ±0.5% | | |
| | Load Regulation | ±1.0% | | |
| | Set-up Time | ≤ 2S (230Vac input, Full load) & ≤ 4S (115Vac input, Full load) | | |
| | Hold up Time | ≥ 16mS/150W 10mS/200W (115 / 230Vac in at 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 | | |
| | Power Factor (Typical) | PF > 0.98/115Vac | | PF > 0.95/230Vac |
| | Efficiency (Typical) 230Vac input | ≥ 89% | | ≥ 90% |
| | AC Current (Max.) | < 3A | | |
| | Inrush Current (Typical) | < 50A@230Vac | < 30A@115Vac | Cold Start |
| | Leakage Current | <3.5mA | | |
| PROTECTION | Over Current | 105% ~ 150% of rated output current, hiccup mode, auto recovery | | |
| | Over Power | 105% ~ 150% of rated output current, hiccup mode, auto recovery | | |
| | Over Voltage | 125% ~ 150% of rated output voltage, Constant voltage | | |
| | Short Circuit | Long-term, auto recovery | | |
| ENVIRONMENT | Operating amb. Temp. & Hum. | -20°C ~ 70°C; 20% ~ 90%RH | | No Condensing |
| | 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, EN55024 Class B | | |
| | Harmonic Current | Compliance to EN61000-3-2, -3 | | |
| | EMS Immunity | Compliance to EN61000-4-2,3,4,5,6,8,11; EN55024, EN61000-6-2 heavy industry level | | |
| OTHERS | MTBF (MIL-HDBK-217F) | More than 200,000Hrs (25°C, Full load) | | |
| | Dimension (L*W*H) | 128 x 76.5 x 34.6mm (5" * 3") | | |
| | Packing | 21PCS/CTN, 8.46KGS, 0.015CBM | | |
| | Cooling Method | Cooling by free air convection | | |
| NOTE | 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 SPS is considered a component which will be installed into final equipment. The equipment must be re-confirmed that it still meets EMC directives | | | |

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Mechanical Specification

Unit: mm (Tolerance is ±1mm)



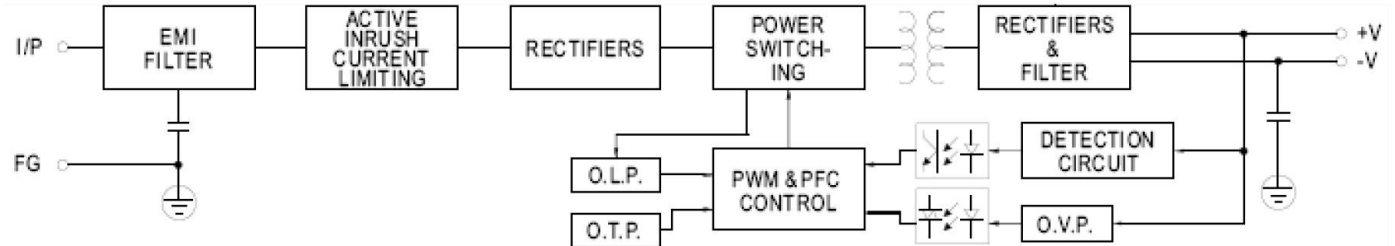
Pin Description:

INPUT CON1: Pin1=AC(L) Pin3=AC(N)
 OUTPUT CON2: Pin1-4= -V Pin5-8=+V

| 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 | | |

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Block Diagram



Derating Curve

