

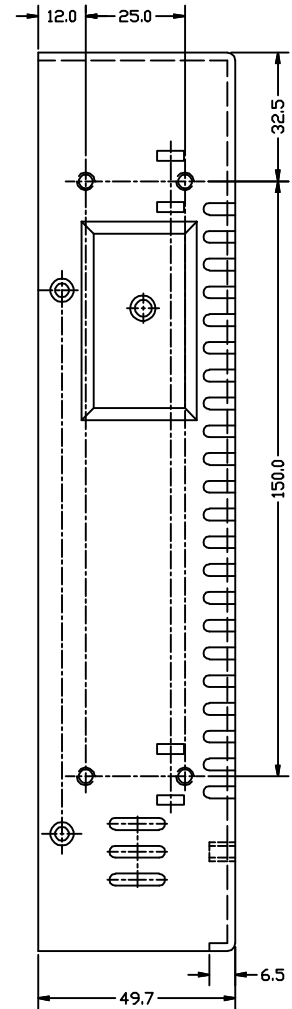
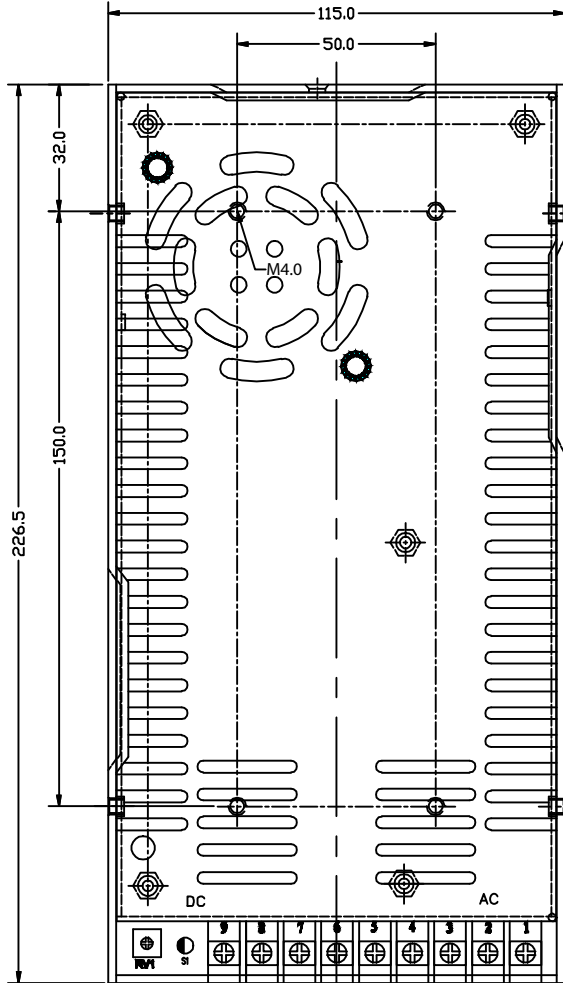
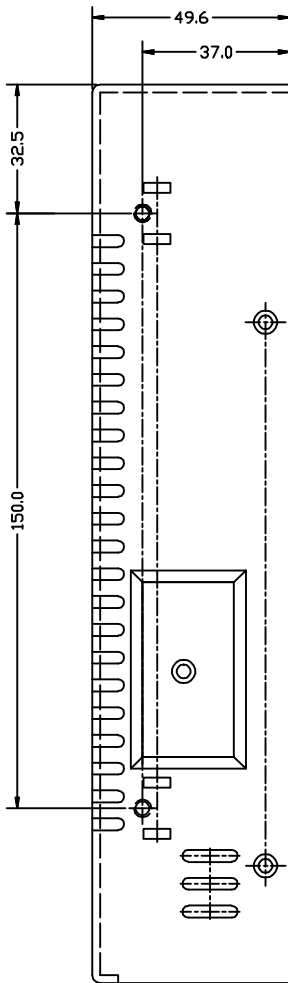
**Features:**

- Universal AC input/ Full range
- Built-in active PFC function, PF>0.95
- High Efficiency, and High Reliability
- Output Protections: OLP/OTP/OVP/SCP
- Wide operating ambient temperature (-25°C~70°C)
- Conformal Coating on PCB Soldering Side
- All using 105°C long life electrolytic capacitors.
- 100% full load burn-in test



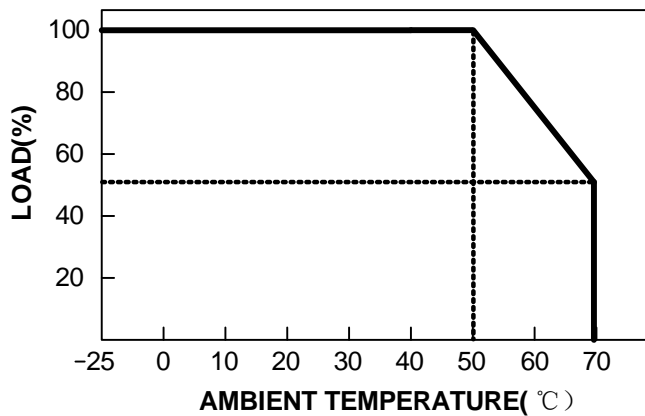
| Model | QPDF-320-3.3 | QPDF-320-4 | QPDF-320-5 | QPDF-320-7.5 | QPDF-320-12 | QPDF-320-24 | QPDF-320-28 | QPDF-320-36 | QPDF-320-48 | |
|--------------------------------------|---|------------|------------|--------------|-------------|-------------|-------------|-------------|-------------|-----|
| Output Characteristics | | | | | | | | | | |
| DC Output | 3.3V | 4V | 5V | 7.5V | 12V | 24V | 28V | 36V | 48V | |
| Rated Current | 60A | 60A | 60A | 40A | 25A | 13A | 11A | 8.8A | 6.7A | |
| Current Range | 0~60A | 0~60A | 0~60A | 0~40A | 0~25A | 0~13A | 0~11A | 0~8.8A | 0~6.7A | |
| Ripple and Noise | 0~65°C | <150mV | <150mV | <150mV | <150mV | <150mV | <150mV | <200mV | <240mV | |
| | -20~0°C | <180mV | <180mV | <180mV | <180mV | <180mV | <180mV | <200mV | <240mV | |
| Voltage ADJ. Range | 3.1V~3.6V | 3.7V~4.3V | 4.4V~5.3V | 6.6V~8.4V | 10.5V~13.3V | 19.7V~26.4V | 25.7V~30.4V | 33.2V~38.4V | 41.5V~53.1V | |
| Voltage Accuracy | ±2.0% | ±2.0% | ±2.0% | ±2.0% | ±1.0% | ±1.0% | ±1.0% | ±1.0% | ±1.0% | |
| Line Regulation | ±0.5% | ±0.5% | ±0.5% | ±0.5% | ±0.3% | ±0.2% | ±0.2% | ±0.2% | ±0.2% | |
| Load Regulation | ±1.0% | ±1.0% | ±1.0% | ±1.0% | ±0.5% | ±0.5% | ±0.5% | ±0.5% | ±0.5% | |
| Set-up Time | <2.5s (115VAC input, full load) <1.2s(230VAC input, full load) | | | | | | | | | |
| Hold-up Time | 3.3V/4V/5V >14ms (230VAC input, full load) 7.5V/12V/24V/28V/36V/48V >16ms (230VAC input, full load) | | | | | | | | | |
| Temperature Coefficient | ±0.03%/°C | | | | | | | | | |
| Overshoot and Undershoot | <5.0% | | | | | | | | | |
| Input Characteristics | | | | | | | | | | |
| Voltage Range | 88VAC~264VAC, 124VDC~370VDC | | | | | | | | | |
| Frequency Range | 47Hz-63Hz | | | | | | | | | |
| Power Factor (Typical) | PF>0.98/115VAC PF>0.95/230VAC | | | | | | | | | |
| Efficiency (Typical) | 115VAC | 72% | 73% | 73% | 77% | 78% | 79% | 79% | 80% | 81% |
| | 230VAC | 77% | 78% | 79% | 83% | 86% | 87% | 87% | 87% | 88% |
| AC Current (max) | 5.0A | | | | | | | | | |
| Inrush Current (Typical) | <23A@115VAC Cold start <45A@230VAC Cold Start | | | | | | | | | |
| Leakage Current | Input-Output: <0.1mA Input-PG: <0.75mA | | | | | | | | | |
| Protection | | | | | | | | | | |
| Over Load (OLP) | 105%~135% of rated output current, hiccup mode, auto recovery | | | | | | | | | |
| Over Temperature (OTP) | 85°C ± 5°C (heatsink of power transistor); shut down, auto recover after the temperature decreases | | | | | | | | | |
| Over Voltage (OVP) | 110%~150% of rated output voltage, shut down, re-power on to recover | | | | | | | | | |
| Short Circuit (SCP) | Long-term mode, auto recovery | | | | | | | | | |
| Environmental Characteristics | | | | | | | | | | |
| Operating Amb. Temp. & Hum | -25°C~70°C; 20%-90% RH Non-Condensing | | | | | | | | | |
| Storage Temp. & Hum | -40°C~85°C; 10%-95% RH Non-Condensing | | | | | | | | | |
| 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, 17625.1-2003 | | | | | | | | | |
| EMS Immunity | Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11; ENV50204, light industry level, criteria A | | | | | | | | | |
| General Characteristics | | | | | | | | | | |
| MTBF (MIL-HDBK-217F) | More than 300,000Hrs (25°C, Full load) | | | | | | | | | |
| Dimension (LxWxH) | 226.5x115x50mm | | | | | | | | | |
| Packing | 10PCS/CTN. G.W: 11.6kgs | | | | | | | | | |
| Cooling Method | Forced air cooling (built-in DC fan) | | | | | | | | | |

MECHANICAL SPECIFICATIONS



| Pin No. | Assignment |
|---------|--------------|
| 1 | AC-L |
| 2 | AC-N |
| 3 | F.G |
| 4,5,6 | DC output -V |
| 7,8,9 | DC output +V |

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