

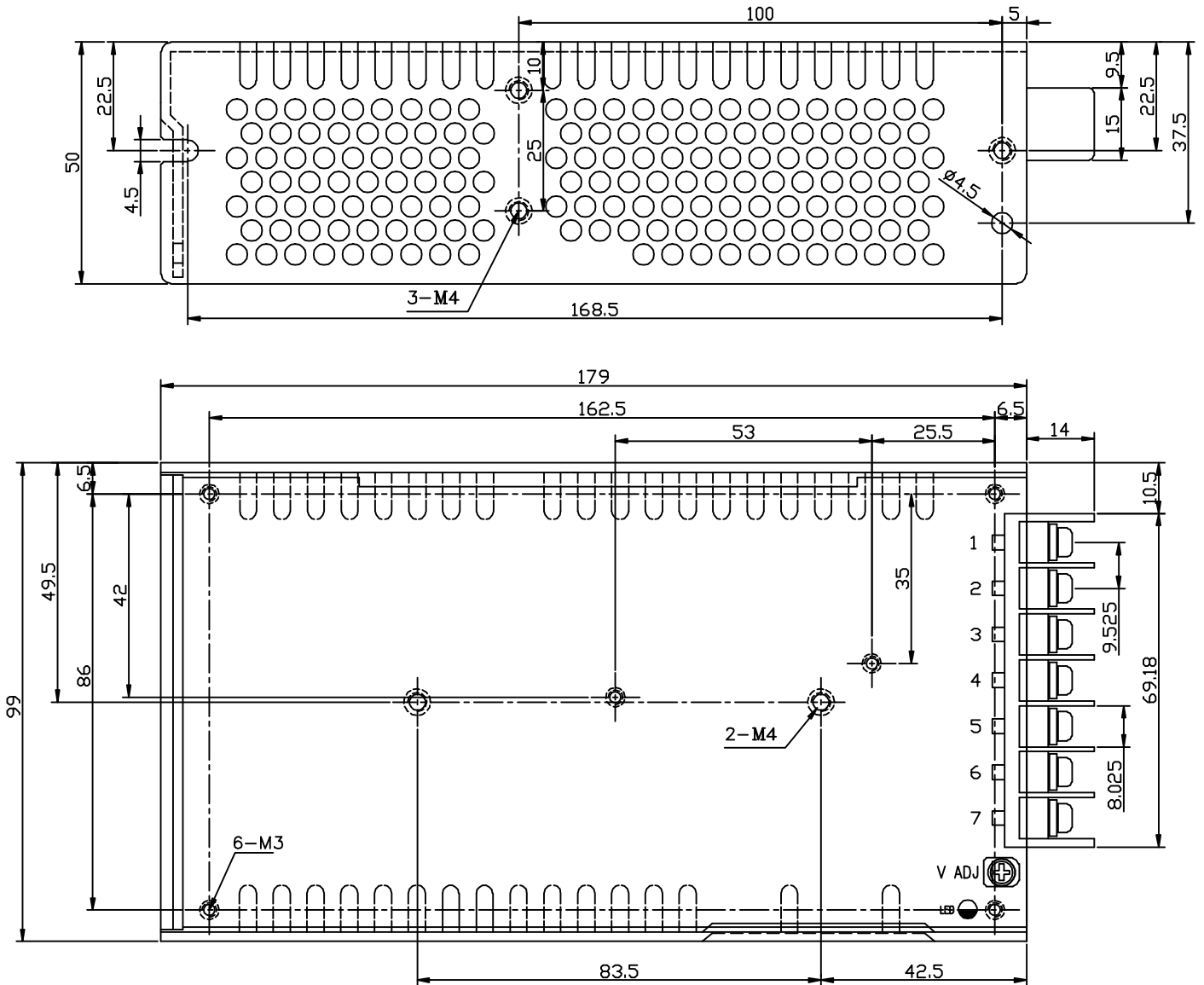
Features:

- Universal AC input/ Full range
- Built-in active PFC function, PF>0.95
- High Efficiency, and High Reliability
- Output Protections: OLP/OVP/SCP
- All using 105°C long life electrolytic capacitors.
- 100% full load burn-in test



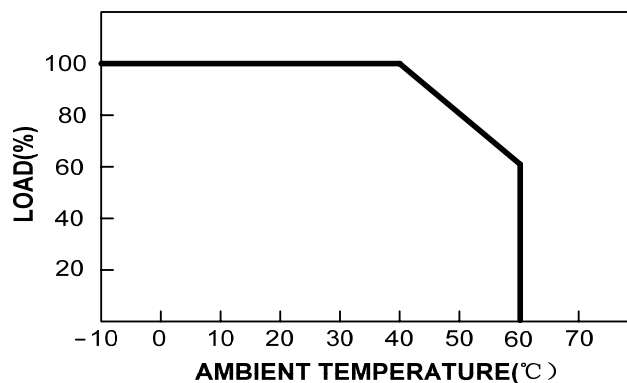
| Model | QPDF-100-5 | QPDF-100-12 | QPDF-100-15 | QPDF-100-24 | QPDF-100-36 | QPDF-100-48 |
|--------------------------------------|--|-------------|-------------|-------------|-------------|-------------|
| Output Characteristics | | | | | | |
| DC Output | 5V | 12V | 15V | 24V | 36V | 48V |
| Rated Current | 20A | 8.5A | 6.7A | 4.2A | 2.75A | 2.10A |
| Current Range | 0~20A | 0~8.5A | 0~6.7A | 0~4.2A | 0~2.75A | 0~2.10A |
| Ripple and Noise | 0~60°C | <50mV | <100mV | <100mV | <100mV | <100mV |
| | -10~0°C | <100mV | <100mV | <100mV | <100mV | <100mV |
| Voltage ADJ. Range | 4.5V~5.5V | 10.6V~13.6V | 13.5V~17.0V | 21.8V~27.4V | 32.6V~39.9V | 44V~52V |
| Voltage Accuracy | ±2.0% | ±2.0% | ±2.0% | ±1.0% | ±1.0% | ±1.0% |
| Line Regulation | ±0.5% | ±0.5% | ±0.5% | ±0.5% | ±0.5% | ±0.5% |
| Load Regulation | ±1.0% | ±1.0% | ±1.0% | ±1.0% | ±1.0% | ±1.0% |
| Set-up Time | <4.0s (115VAC input, full load); <2.0s (230VAC input, full load) | | | | | |
| Hold-up Time | >10ms (115VAC input, full load); >20ms (230VAC input, full load) | | | | | |
| Temperature Coefficient | ±0.03%/°C | | | | | |
| Overshoot and Undershoot | <5.0% | | | | | |
| Input Characteristics | | | | | | |
| 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 | 78% | 84% | 84% | 84% | 86% |
| | 230VAC Input | 80% | 86% | 86% | 86% | 87% |
| AC Current (max) | <1.7A | | | | | |
| Inrush Current (Typical) | 30A@115VAC Cold start, 50A@230VAC Cold start | | | | | |
| Leakage Current | Input-Output: <0.25mA Input-PG: <3.5mA | | | | | |
| Protection | | | | | | |
| Over Load (OLP) | 105%~150% of rated output current, hiccup mode, auto recovery | | | | | |
| 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 | -10°C~60°C; 20%~90% RH Non-Condensing | | | | | |
| Storage Temp. & Hum | -20°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 200,000Hrs (25°C, Full load) | | | | | |
| Dimension (LxWxH) | 194x99x50mm | | | | | |
| Packing | 10PCS/CTN. G.W: 8.1kgs | | | | | |
| Cooling Method | Cooling by free air convection | | | | | |

MECHANICAL SPECIFICATIONS



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

DERATING CURVE



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