

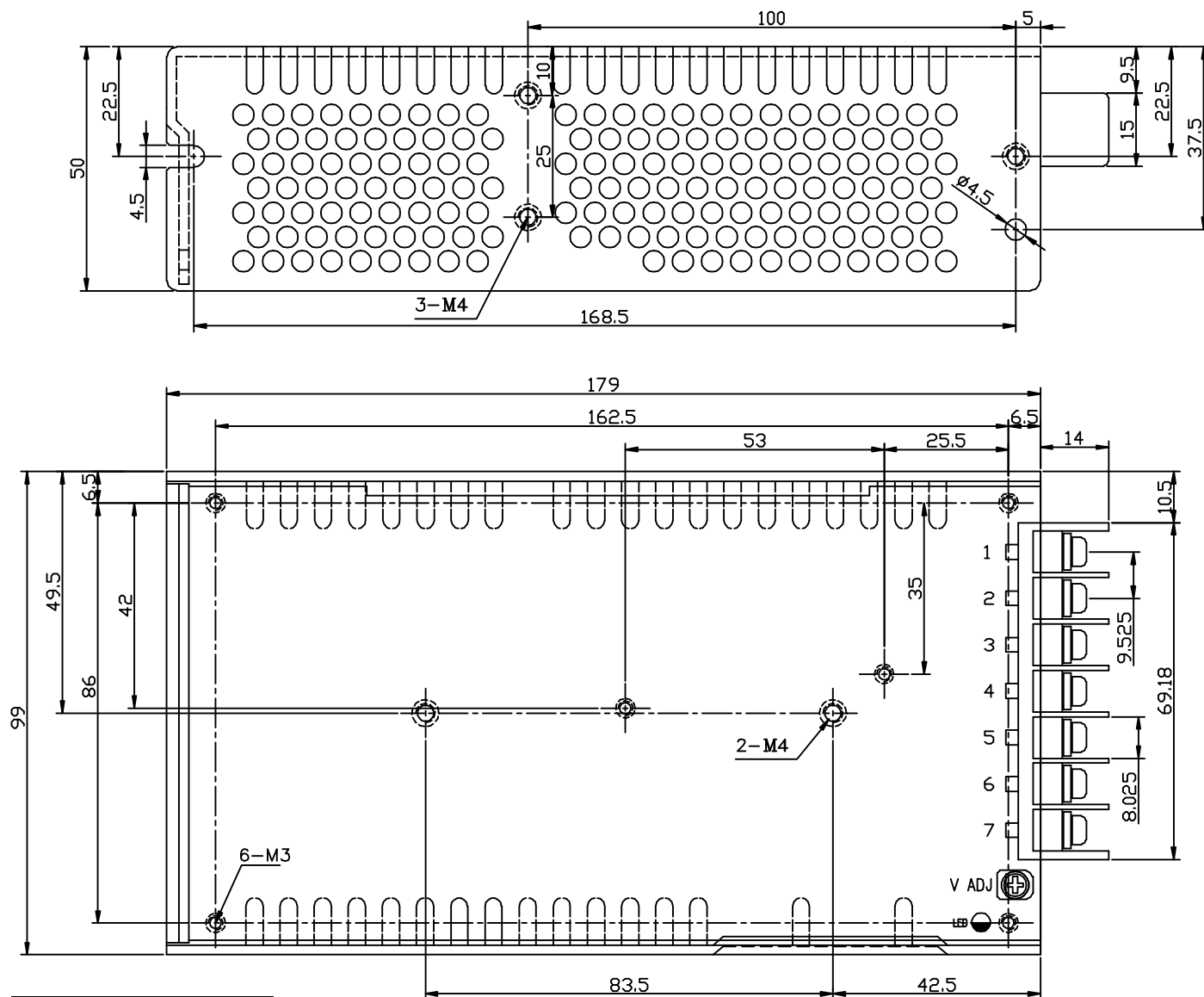
**Features:**

- 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



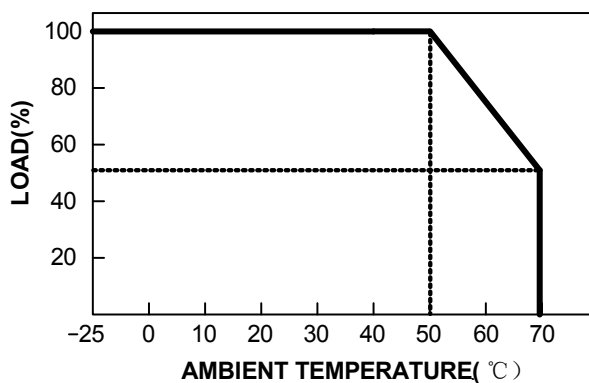
| Model                         |              | QPDF-150-5                                                                               | QPDF-150-12 | QPDF-150-15 | QPDF-150-24 | QPDF-150-36 | QPDF-150-48 |
|-------------------------------|--------------|------------------------------------------------------------------------------------------|-------------|-------------|-------------|-------------|-------------|
| Output Characteristics        |              |                                                                                          |             |             |             |             |             |
| DC Output                     |              | 5V                                                                                       | 12V         | 15V         | 24V         | 36V         | 48V         |
| Rated Current                 |              | 30A                                                                                      | 12.5A       | 10A         | 6.3A        | 4.1A        | 3.2A        |
| Current Range                 |              | 0~30A                                                                                    | 0~12.5A     | 0~10A       | 0~6.3A      | 0~4.1A      | 0~3.2A      |
| Ripple and Noise              |              | <100mV                                                                                   | <100mV      | <100mV      | <150mV      | <240mV      | <240mV      |
| Voltage ADJ. Range            |              | 4.3V~5.6V                                                                                | 10.6V~13.5V | 12.7V~17.0V | 22.1V~26.7V | 33.0V~40.0V | 44V~52V     |
| Voltage Accuracy              |              | ±2.0%                                                                                    | ±1.0%       | ±1.0%       | ±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                   |              | <2.0s (115VAC input, full load); <1.0s (230VAC input, full load)                         |             |             |             |             |             |
| Hold-up Time                  |              | >20ms (115VAC/230VAC input, full load)                                                   |             |             |             |             |             |
| Temperature Coefficient       |              | ±0.03%/°C                                                                                |             |             |             |             |             |
| Overshoot and Undershoot      |              | <5.0%                                                                                    |             |             |             |             |             |
| Input Characteristics         |              |                                                                                          |             |             |             |             |             |
| Voltage Range                 |              | 85VAC~264VAC, 120VDC~370VDC                                                              |             |             |             |             |             |
| Frequency Range               |              | 47Hz~63Hz                                                                                |             |             |             |             |             |
| Power Factor (Typical)        |              | PF>0.98/115VAC PF>0.95/230VAC                                                            |             |             |             |             |             |
| Efficiency<br>(Typical)       | 115VAC Input | 80%                                                                                      | 83%         | 83%         | 84%         | 83%         | 84%         |
|                               | 230VAC Input | 82%                                                                                      | 86%         | 86%         | 86%         | 86%         | 87%         |
| AC Current (max)              |              | 2.0A                                                                                     |             |             |             |             |             |
| Inrush Current (Typical)      |              | 30A@115VAC Cold start 60A@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 (5V)                |             |             |             |             |             |
| 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           |              | -30°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 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; EN55024, EN61000-6-2 heavy industry level  |             |             |             |             |             |
| General Characteristics       |              |                                                                                          |             |             |             |             |             |
| MTBF (MIL-HDBK-217F)          |              | More than 200,000Hrs (25°C, Full load)                                                   |             |             |             |             |             |
| Dimension (LxWxH)             |              | 194x99x50mm                                                                              |             |             |             |             |             |
| Packing                       |              | 10PCS/CTN. G.W: 9.0kgs                                                                   |             |             |             |             |             |
| 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



UNIT: mm

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