

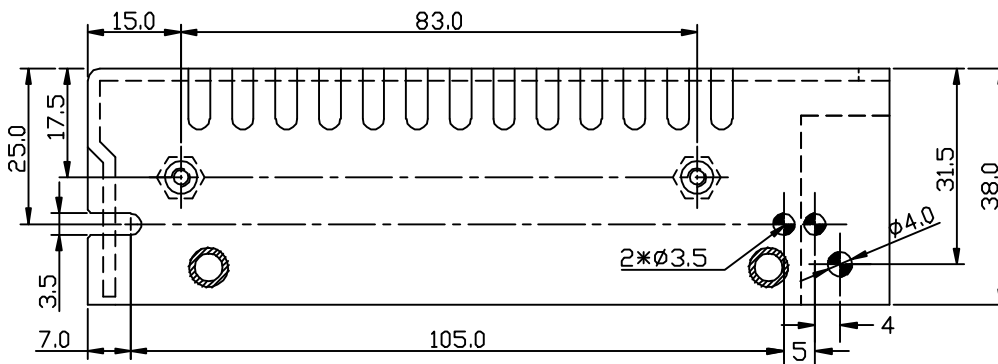
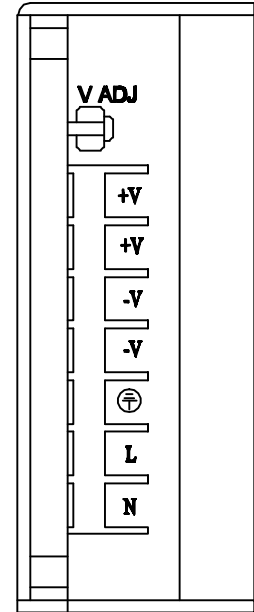
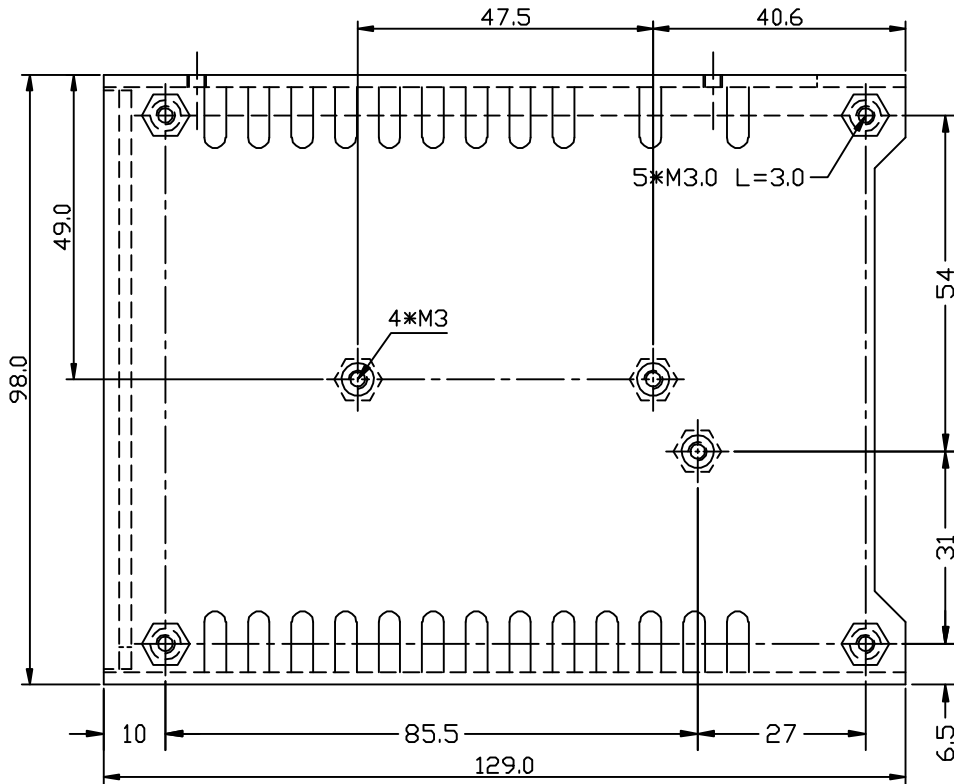
**Features:**

- Universal AC input/ Full range
- Wide Operating Ambient Temperature (-20°C~70°C)
- High Efficiency, and High Reliability
- Output Protections: OLP/OVP/SCP
- All using 105°C long life electrolytic capacitors.
- 100% full load burn-in test



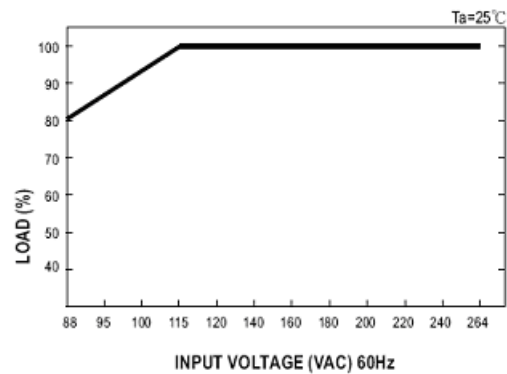
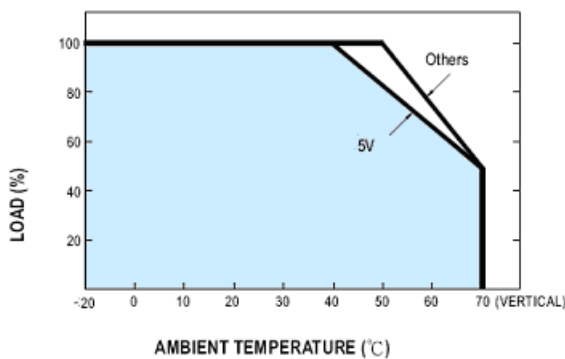
| Model                                | QPD-60-5   | QPD-60-12   | QPD-60-15   | QPD-60-24   | QPD-60-48   |     |
|--------------------------------------|--|-------------|-------------|-------------|-------------|-----|
| <b>Output Characteristics</b>        |  |             |             |             |             |     |
| DC Output                            | 5V   | 12V         | 15V         | 24V         | 48V         |     |
| Rated Current                        | 10A  | 5A          | 4A          | 2.5A        | 1.25A       |     |
| Current Range                        | 0~10A  | 0~5A        | 0~4A        | 0~2.5A      | 0~1.25A     |     |
| Ripple and Noise (-20~70°C)          | <50mV  | <50mV       | <100mV      | <100mV      | <200mV      |     |
| Voltage ADJ. Range                   | 4.6V-5.5V  | 11.0V-13.0V | 13.7V-16.0V | 22.0V-25.3V | 45.3V-51.3V |     |
| Voltage Accuracy                     | ±2.0%  | ±2.0%       | ±2.0%       | ±2.0%       | ±2.0%       |     |
| Line Regulation                      | ±0.5%  | ±0.5%       | ±0.5%       | ±0.5%       | ±0.5%       |     |
| Load Regulation                      | ±2.0%  | ±2.0%       | ±2.0%       | ±2.0%       | ±2.0%       |     |
| Set-up Time                          | <2.0s (115VAC input, full load); <1.0s (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%  |             |             |             |             |     |
| <b>Input Characteristics</b>         |  |             |             |             |             |     |
| Voltage Range                        | 88VAC~264VAC, 124VDC~370VDC  |             |             |             |             |     |
| Frequency Range                      | 47Hz-63Hz  |             |             |             |             |     |
| Efficiency (Typical)                 | 115VAC Input   | 75%         | 81%         | 81%         | 83%         | 84% |
|                                      | 230VAC Input   | 76%         | 82%         | 82%         | 83%         | 85% |
| AC Current (max)                     | 1.5A   | 1.5A        | 1.5A        | 1.5A        | 1.5A        |     |
| Inrush Current (Typical)             | 40A@115VAC Cold start 60A@230VAC Cold start  |             |             |             |             |     |
| Leakage Current                      | <0.25mA@115VAC <3.5mA@230VAC   |             |             |             |             |     |
| <b>Protection</b>                    |  |             |             |             |             |     |
| Over Load (OLP)                      | 105%~150% of rated output current, hiccup mode, auto recovery                            |             |             |             |             |     |
| Over Voltage (OVP)                   | 120%~150% of rated output voltage, shut down, re-power on to recover (5V)                |             |             |             |             |     |
|                                      | 110%~133% of rated output voltage, shut down, re-power on to recover (12V)               |             |             |             |             |     |
|                                      | 110%~140% of rated output voltage, shut down, re-power on to recover (15V, 24V)          |             |             |             |             |     |
|                                      | 110%~125% of rated output voltage, shut down, re-power on to recover (48V)               |             |             |             |             |     |
| Short Circuit (SCP)                  | Long-term mode, auto recovery  |             |             |             |             |     |
| <b>Environmental Characteristics</b> |  |             |             |             |             |     |
| Operating Amb. Temp. & Hum           | -20°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   |             |             |             |             |     |
| EMS Immunity                         | Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11; ENV50204, light industry level, criteria A |             |             |             |             |     |
| <b>General Characteristics</b>       |  |             |             |             |             |     |
| MTBF (MIL-HDBK-217F)                 | More than 200,000Hrs (25°C, Full load)   |             |             |             |             |     |
| Dimension (LxWxH)                    | 129x98x38mm  |             |             |             |             |     |
| Packing                              | 30PCS/CTN. G.W: 14.2kgs  |             |             |             |             |     |
| Cooling Method                       | Cooling by free air convection   |             |             |             |             |     |

## MECHANICAL SPECIFICATIONS



| Pin No. | Assignment   |
|---------|--------------|
| 1       | AC-N         |
| 2       | AC-L         |
| 3       | F.G          |
| 4.5     | DC output -V |
| 6.7     | DC output +V |

## DERATING CURVE



UNIT: mm