

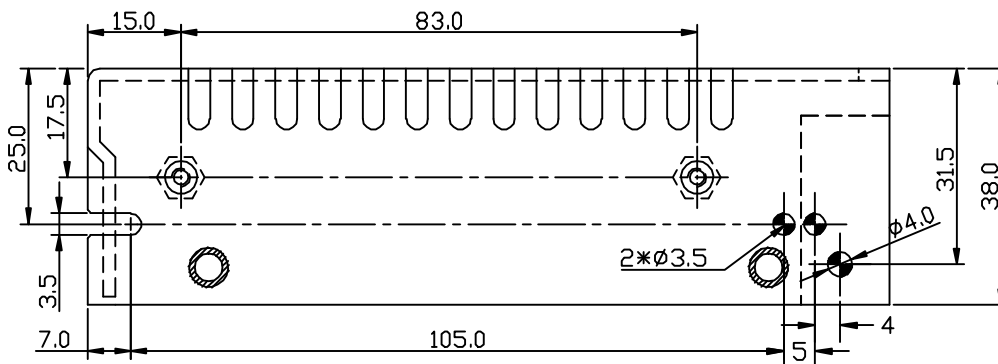
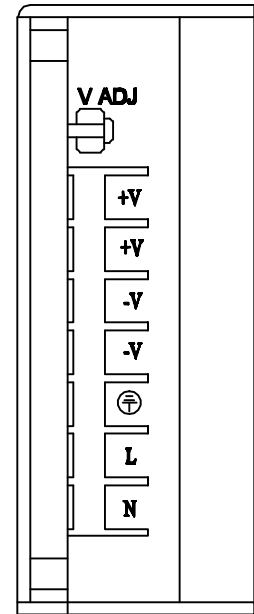
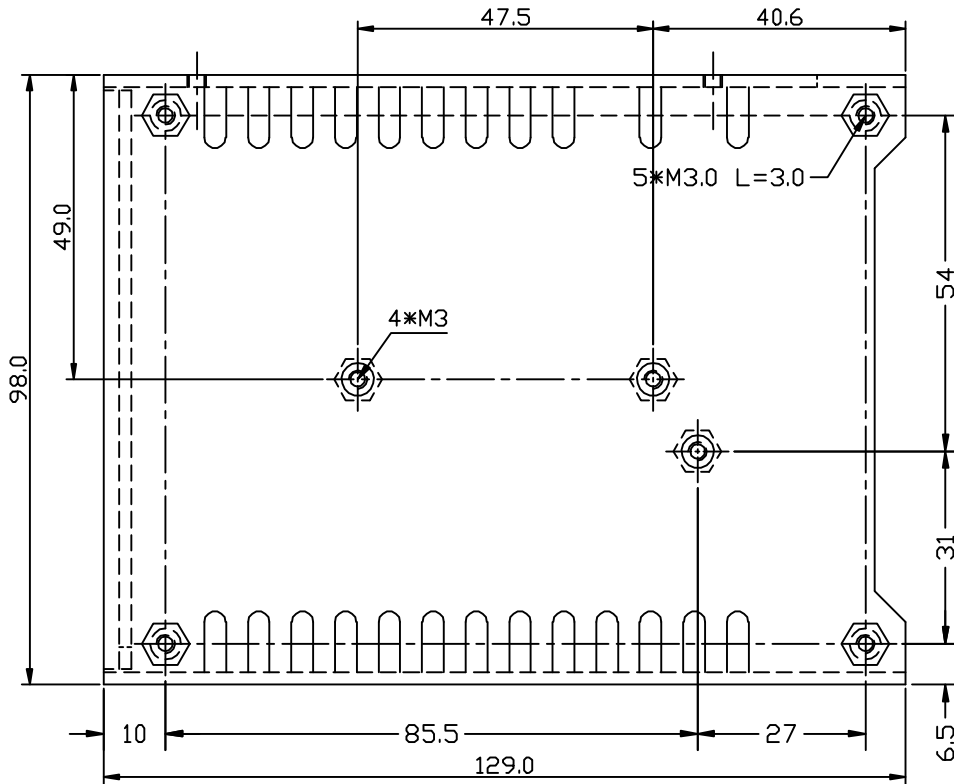
**Features:**

- 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



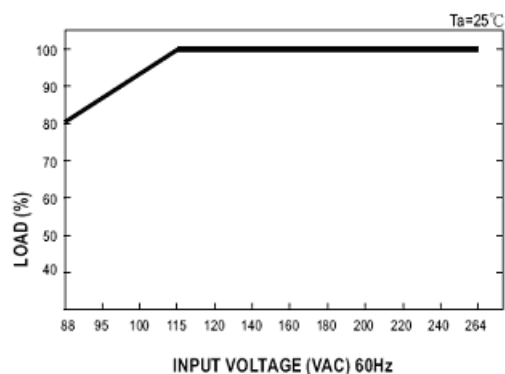
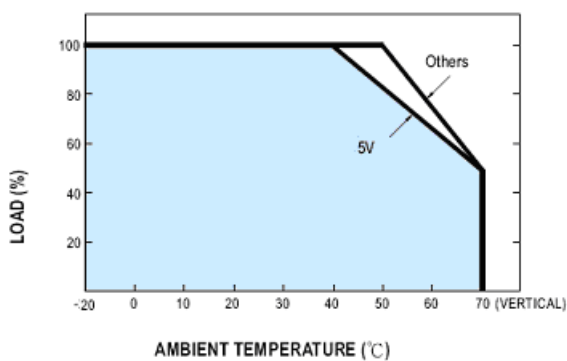
Model	QPD-60-5	QPD-60-12	QPD-60-15	QPD-60-24	QPD-60-48	
Output Characteristics						
DC Output	5V	12V	15V	24V	48V	
Rated Current	10A	5A	4A	2.5A	1.25A	
Current Range	0~10A	0~5A	0~4A	0~2.5A	0~1.25A	
Ripple and Noise (-20~70°C)	<50mV	<50mV	<100mV	<100mV	<200mV	
Voltage ADJ. Range	4.6V-5.5V	11.0V-13.0V	13.7V-16.0V	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%					
Input Characteristics						
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					
Protection						
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					
Environmental Characteristics						
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					
General Characteristics						
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

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