

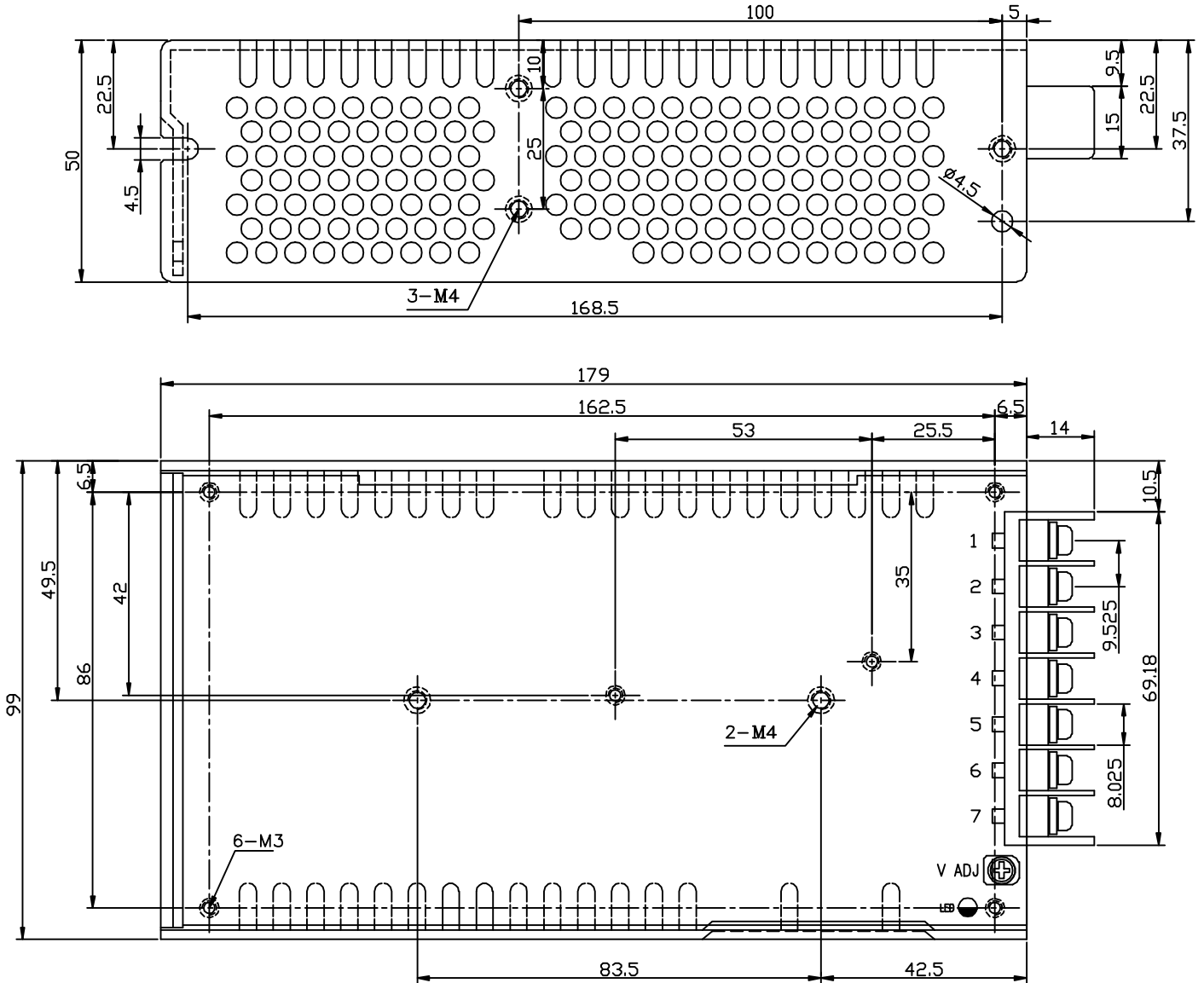
**Features:**

- 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



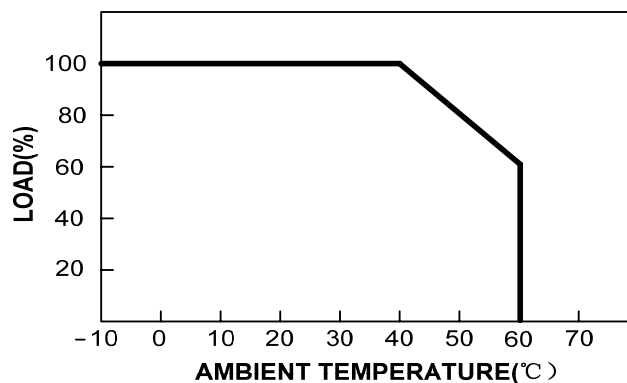
Model	QPDF-100-5	QPDF-100-12	QPDF-100-15	QPDF-100-24	QPDF-100-36	QPDF-100-48
<b>Output Characteristics</b>						
DC Output	5V	12V	15V	24V	36V	48V
Rated Current	20A	8.5A	6.7A	4.2A	2.75A	2.10A
Current Range	0~20A	0~8.5A	0~6.7A	0~4.2A	0~2.75A	0~2.10A
Ripple and Noise	0~60°C	<50mV	<100mV	<100mV	<100mV	<100mV
	-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%					
<b>Input Characteristics</b>						
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					
<b>Protection</b>						
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					
<b>Environmental Characteristics</b>						
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					
<b>General Characteristics</b>						
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



UNIT: mm

# Mouser Electronics

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