

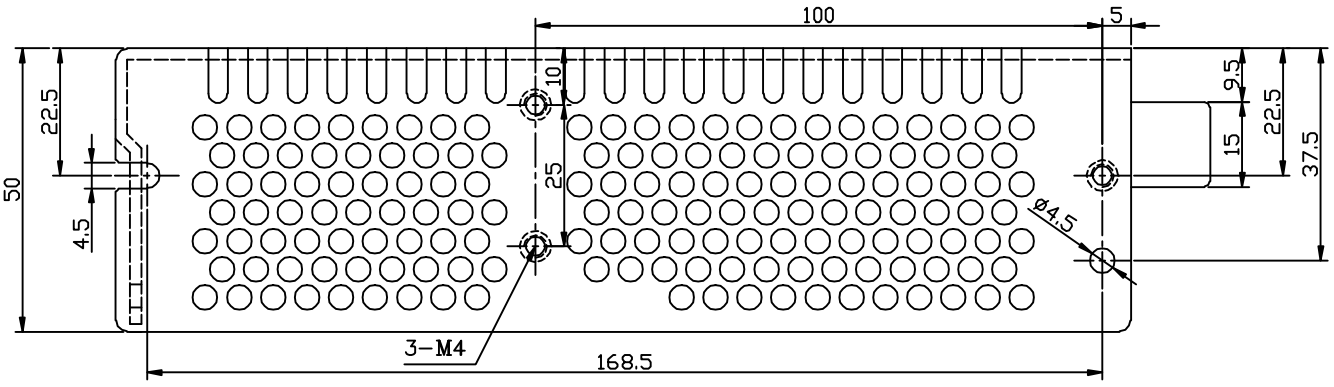
Features:

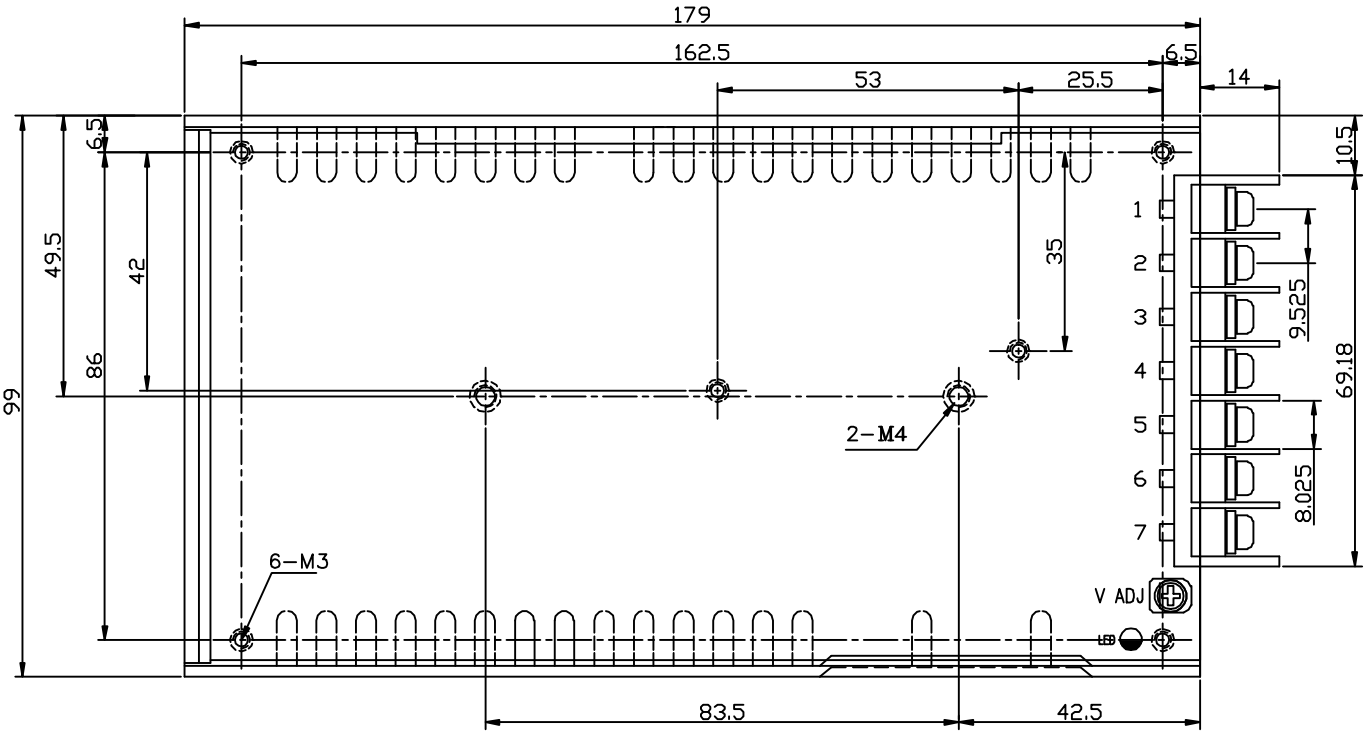
- Universal AC input/ Full range
- Built-in active PFC function, PF>0.95
- High Efficiency, and High Reliability
- Output Protections: OLP/OVP/SCP
- All using 105°C long life electrolytic capacitors.
- 100% full load burn-in test

CE CB cULus RoHS Compliant

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	<100mV
	-10~0°C	<100mV	<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%	84%	86%
	230VAC Input	80%	86%	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					

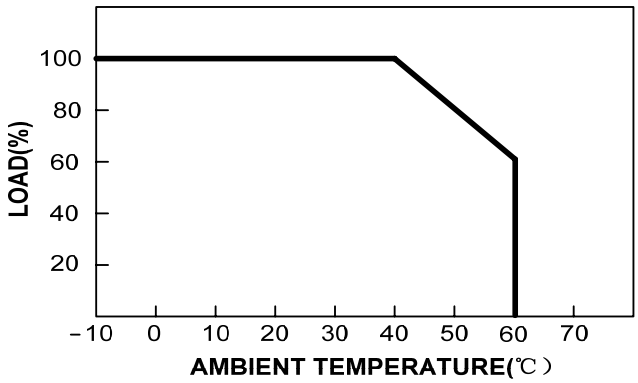
MECHANICAL SPECIFICATIONS





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

DERATING CURVE



UNIT: mm