

AC/DC Chassis Mount

XPiQ inc.

Intelligent Design Quality Product

160 Watts JPM160 Series



- CE Marked LVD
- Low Cost
- High Reliability
- Power Factor Corrected
- Low Ripple Noise
- Adjustable Output
- Remote On/Off Standard

Specification

Input

- AC Input Voltage • 85-264 VAC
- Input Frequency • 47-63 Hz
- DC Input Voltage • 120-370 VDC
- Power Factor • 0.98 at 115 VAC, 0.96 at 230 VAC
- Input Current • 2.8 A max at 115 VAC
- Inrush Current • 40A at 230 VAC cold start
- Set-Up time • 600 ms
- Rise Time • 30ms

Output

- Output Voltage • 3.3 V to 48 V single outputs
- Output Power • 160 Watts, see table
- Output Voltage Adjustment • +10%, -5%
- Minimum Load • 0 minimum load required
- Tolerance • $\pm 2\%$ max
- Line Regulation • $\pm 0.5\%$
- Load Regulation • $\pm 1\%$ max, see table
- Ripple & Noise • 100mV typical, see table
- Transient Response • 5% max deviation, 500 μ s recovery time for a 50% load change
- Temperature Coefficient • 0.05%/°C
- Hold Up Time • 20ms minimum at 230 VAC
- Overvoltage Protection • 110% to 135 %
- Overcurrent Protection • 130% - 170%, constant current auto restart

Overtemperature Protection

Remote On/Off

- Shutdown at 95°C $\pm 5^\circ$ C with auto recovery
- On = 3 to 15 VDC, Off = <1 VDC

General

- Efficiency • See Table
- MTBF • 100,000 hrs min
- Leakage Current • <2 mA at 240 VAC
- Isolation Voltage • 3000 VAC Input to Output
1500 VAC Input to Ground
500 VAC Output to Ground
- Size • 199 x 99 x 50mm
- Weight • 800 grams

Environmental

- Operating Temperature • -10°C to +60°C (see derating curves)
- Cooling • Internal fan
- Humidity • 20-90% RH non condensing
- Storage Temperature • -20°C to +85°C
- Shock & Vibration • 10-500Hz 2G 10 min/cycle for 60 min each axis

Safety and EMC

- Safety Approvals • UL1950, CSA C22.2 No. 950 per cUL, EN60950, CE Mark LVD
- EMI/EMC • Meets EN61000-3-2, -3, ENV50204, CISPR22 (EN55022) Class B
- Immunity & Surge • Meets EN61000-4-2, -3, -4, -5, -6, -8, -11
- Warranty • 1 Year

OUTPUT VOLTAGE & CURRENT RATINGS

JPM 160

Output Voltage	Output Current	Output Power ¹	Ripple & Noise (P-P)	Load Regulation	Efficiency	Model Number ²
3.3 V	32 A	105 W	100 mV	±1%	65%	JPM160PS03
5.0 V	32 A	160 W	100 mV	±1%	71%	JPM160PS05
7.5 V	21 A	160 W	100 mV	±1%	77%	JPM160PS07
12.0 V	13.4 A	160 W	100 mV	±0.5%	79%	JPM160PS12
13.5 V	11.8 A	160 W	100 mV	±0.5%	81%	JPM160PS13
15.0 V	10.6 A	160 W	100 mV	±0.5%	81%	JPM160PS15
24.0 V	6.7 A	160 W	150 mV	±0.5%	83%	JPM160PS24
27.0 V	6 A	160 W	150 mV	±0.5%	83%	JPM160PS27
48.0 V	3.3 A	160 W	250 mV	±0.5%	84%	JPM160PS48

Notes

1. Max output increases to 125% of rated power when input voltage is between 180 VAC to 264 VAC and ambient temperature is less than 50°C.
2. Part numbers in bold type are standard stock models, all others are build to order.

Mechanical Details - 160 Watts

Dimensions (mm)

TERMINAL Pin No. Assignment

PIN 1,2: AC Input

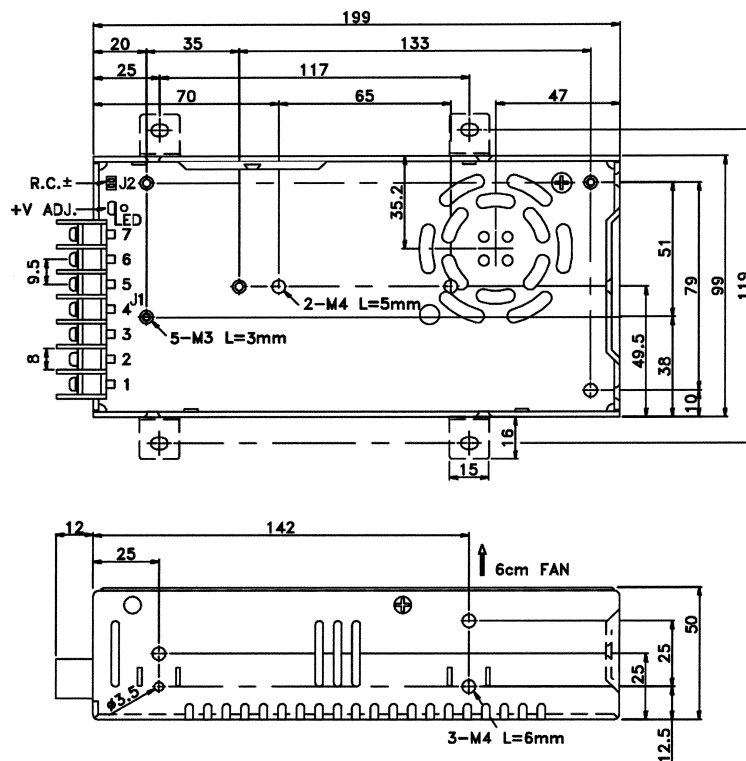
Pin 3: FG 

Pin 4,5: DC Output -V

Pin 6,7: DC Output +V

J2: Remote Control

(Molex 5046 Compatible)



Derating Graph 160 Watts

