

AC/DC Industrial Type

160 Watts JPM160 Series

XPiQ inc.

Intelligent Design Quality Product



CE Marked LVD

Low Cost

High Reliability

Power Factor Corrected

Low Ripple Noise

Adjustable Output

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	• 40 A at 230 VAC cold start
Set-Up time	• 600 ms
Rise Time	• 30 ms

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	• 100 mV 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	• 20 ms minimum at 230 VAC
Overvoltage Protection	• 110-135 %
Overcurrent Protection	• 130-170%, constant current auto restart
Overtemperature Protection	• Shutdown at +95 °C ± 5 °C with auto recovery

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	• 10-500 Hz 2G 10 min/cycle for 60 min each axis

EMC & Safety

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

OUTPUT VOLTAGE & CURRENT RATINGS

JPM160

Output Voltage	Output Current	Output Power ¹	Ripple & Noise (Pk-Pk)	Load Regulation	Efficiency	Model Number ²
3.3 V	32.0 A	105 W	100 mV	±1.0%	65%	JPM160PS03
5.0 V	32.0 A	160 W	100 mV	±1.0%	71%	JPM160PS05
7.5 V	21.0 A	160 W	100 mV	±1.0%	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	6.0 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.
3. For optional Remote On/Off, add suffix "R" to part number. Example: JPM160PS03R On=3~15VDC, Off=<3VDC

Mechanical Details - 160 Watts

Dimensions (mm)

TERMINAL Pin No.Assignment

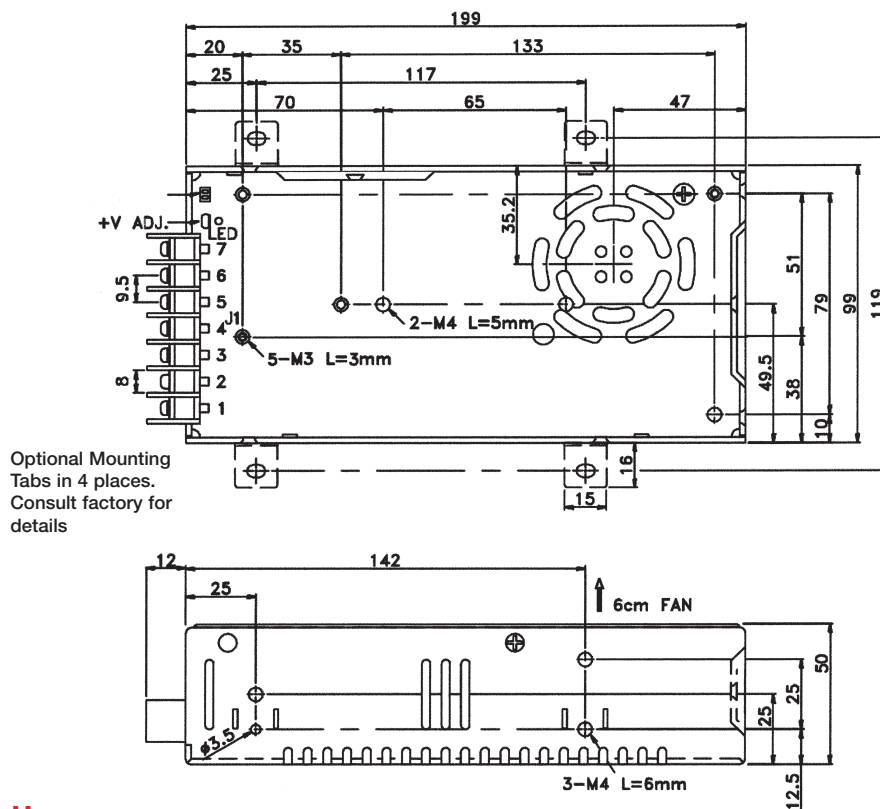
PIN 1,2: AC Input

Pin 3: FG 

Pin 4,5: DC Output -V

Pin 6,7: DC Output +V

Weight: approx 800 grams



Derating Graph 160 Watts

