

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 ±2% max
- Line Regulation ±0.5%
- Load Regulation ±1% max, see table
- Ripple & Noise 100 mV typical, see table
- Transient Response 5% max deviation, 500 µs 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

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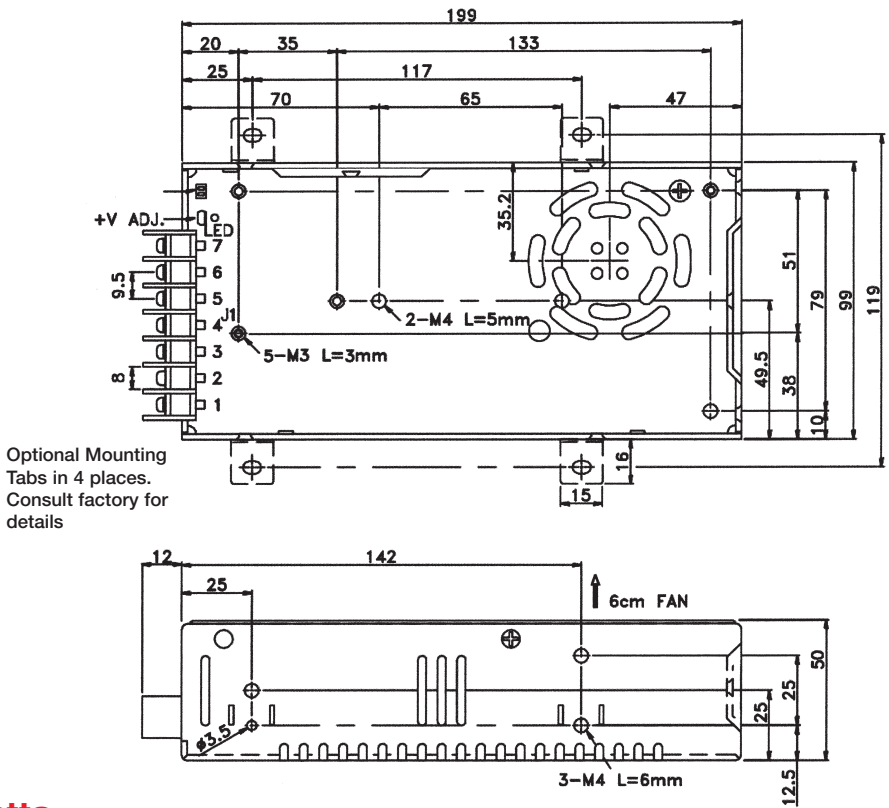
OUTPUT VOLTAGE & CURRENT RATINGS						JPM160
Output Voltage	Output Current	Output Power ¹	Ripple & Noise (Pk-Pk)	Load Regulation	Efficiency	Model Number ²
3.3 V	32.0 A	105 W	100 mV	±1.0%	65%	JPM160PS03
5.0 V	32.0 A	160 W	100 mV	±1.0%	71%	JPM160PS05
7.5 V	21.0 A	160 W	100 mV	±1.0%	77%	JPM160PS07
12.0 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

