

LPQ200-M Series

200 Watts



Input Voltage: 90 - 264 Vac **# of Outputs:** Quad

SPECIAL FEATURES

- Medical and ITE safeties
- Active power factor correction
- 3" x 5" footprint

Data Sheet

- Less than 1U high
- EN61000-3-2 compliant
- Remote sense
- Power fail
- Adjustable outputs
- Built-in Class B EMI filter
- Overvoltage protection
- Overload protection
- Thermal overload protection
- LPX200 enclosure kit available
- RoHS compliant

SAFETY

TUV	62368, 60601-1
UL	62368, 60601-1
CSA	62368, 60601-1
CB	Certificate & repor
CE	Mark (LVD)





Environmental Specifications			
Operating temperature	0 °C to 50 °C ambient derate each output as 2.5% per degree from 50 °C to 70 °C20 °C start up		
Storage temperature	-40 °C to +85 °C		
Electromagnetic susceptibility	Designed to meet EN61000-4; -2, -3, -4, -5, -6, -8, -11 Level 3		
Humidity	Operating; non-condensing 10% to 90% RH, non-operating, non-condensing 10 - 95%		
Vibration	IEC68-2-6 to the levels of IEC721-3-2		
MTBF calculated	516,000 hours at full load and 25 °C ambient conditions. 230 Vac input, Bellcore		

Ordering Information							
Model Number	Output Voltage	Minimum Load	Maximum Load with Convection Cooling	Maximum Load with 30CFM Forced Air	Peak Load	Regulation ²	Ripple P/P (PARD) ³
	+3.3 V	0 A	13 A	18 A	20 A	± 2%	50 mV
LPQ201-M	+5 V	0 A	13 A	18 A	20 A	± 2%	50 mV
	+12 V	0 A	5 A	9 A	10 A	± 5%	120 mV
	-12 V	0 A	1 A	2 A	2.5 A	± 5%	120 mV
	+5 V	0 A	13 A	18 A	20 A	± 2%	50 mV
LPQ202-M	+12 V	0 A	5 A	9 A	10 A	± 5%	120 mV
	+24 V	0 A	1.5 A	3 A	3.5 A	± 7%	240 mV
	-12 V	0 A	1 A	2 A	2.3 A	± 5%	120 mV

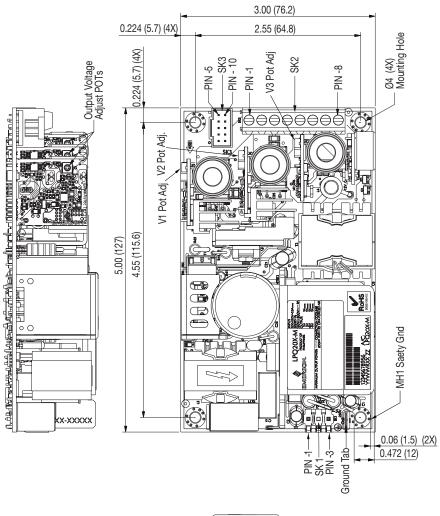
- 1. Peak current lasting < 30 seconds with a maximum 10% duty cycle.
- 2. At 25 °C including initial tolerance, line voltage, load currents and output voltages adjusted to factory settings.
- 3. Peak-to-peak with 20 MHz bandwidth and 10 µF (tantalum capacitor) in parallel with a 0.1 µF capacitor at rated line voltage and load ranges.
- 4. This product is a Component Power Supply and is only for inclusion by professional installers within other equipment and must not be operated as a standalone product. EMC compliance to appropriate standards must be verified at the system level. This product is for sale to OEMs and System Integrators, including through Distribution Channels. It is not intended for sale to End Users.

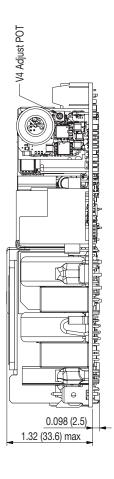
Pin Assign	ments	
Connector	LPQ200-M	
SK1	PIN 1	Neutral
	PIN 3	Line
SK2	PIN 1	V1 OUT
	PIN 2	V2 OUT
	PIN 3	GND OUT
	PIN 4	GND OUT
	PIN 5	GND OUT
	PIN 6	GND OUT
	PIN 7	V3 OUT
	PIN 8	V4 OUT
SK3	PIN 1	+V1 Remote sense
	PIN 2	-V1 Remote sense
	PIN 3	N/C
	PIN 4	N/C
	PIN 5	+Power fail
	PIN 6	Common
	PIN 7	N/C
	PIN 8	Common
	PIN 9	+V2 Remote Sense (LPQ201-M only)
	PIN 10	-V2 Remote Sense (LPQ201-M only)

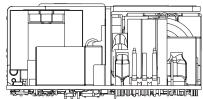
AC Input (SK1)	Molex 09-50-3031 (connector) PINS: 08-52-0072
AC Ground	Molex 01-90020001
DC Output (SK2)	Terminal block Wire size based on Cable Ampacity/AWG
Control Signals (SK3)	Molex 90142-0010 (USA) PINS: 90119-2110 or AMP: 87977-3 PINS: 87309-8

- 1. Specifications subject to change without notice.
- 2. All dimensions in inches (mm), tolerance is \pm 0.02" (\pm 0.5 mm)
- 3. Mounting holes MH1 and MH2 should be grounded for EMI purposes.
- 4. Mounting hole MH1 is safety ground connection.
- Specifications are for convection rating at factory settings at 115 Vac input, 25 °C unless otherwise stated.
- 6. This power supply requires mounting on metal standoffs 0.20" (5 m) in height.
- 7. Warranty: 2 years
- 8. Weight: 1.5 lbs/0.68 kg

Mechanical Drawing







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