LPS200-M Series 250 Watts

Total Power: 125 - 250 Watts **Input Voltage:** 90 - 264 Vac **# of Outputs:** Single



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Special Features

- Medical and ITE safeties
- Active power factor correction
- 3" x 5" footprint
- Less than 1U high
- EN61000-3-2 compliant
- Remote sense
- Power fail
- Adjustable main output
- Built-in Class B EMI filter
- Overvoltage protection
- Overload protection
- Thermal overload protection
- Isolated 12V Fan output
- LPX200 enclosure kit available

Electrical Specifications

Input				
Input range:	90 - 264 Vac; 120 - 300 Vdc			
Frequency:	47-63 Hz			
Inrush current:	50 A max., cold start @ 25 °C			
Efficiency:	86% typical at full load			
EMI/RFI:	FCC Class B conducted; CISPR22 Class B conducted; EN55022 Class B conducted; VDE0878PT3 Class B conducted			
Power factor:	0.99 typical			
Safety ground leakage current:	275 uA @ 50/60 Hz, 264 Vac input			
Output				
Maximum power:	125 W for convection (100 W for LPS202-M); 250 W (200 W for LPS202-with 30CFM forced air			
Adjustment range:	±10% minimum on the main outputs			
Fan output:	12 V @ 0.5 A convection, @ 1 A forced air isolated, ±10%			
Hold-up time:	16 ms @ 250 W load, 120 Vac input			
Overload protection:	Short circuit protection on all outputs. Case overload protected @ 110-1609 above rating			
Overvoltage protection:	15-50% above nominal output			
Logical Control				
Power failure:	Open collector logic signal goes high 100-500 msec after main output; it goes low at least 6 msec before loss of regulation			
Remote sense:	Compensates for 0.5 V lead drop min. Will operate without remote sense connected. Reverse connection protected.			

Safety

TUV 60950, 60601-1
UL 60950, 60601-1
cULus 60950, 60601-1
CB Certificate & report
CE Mark (LVD)



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Environmental Specifications

Operating temperature:	0° to 50 °C ambient derate each output as 2.5% per degree from 50° 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 95% RH
Vibration:	IEC68-2-6 to the levels of IEC721-3-2
MTBF calculated:	1 million hours at full load and 25 °C ambient conditions. 230 Vac input, Bellcore

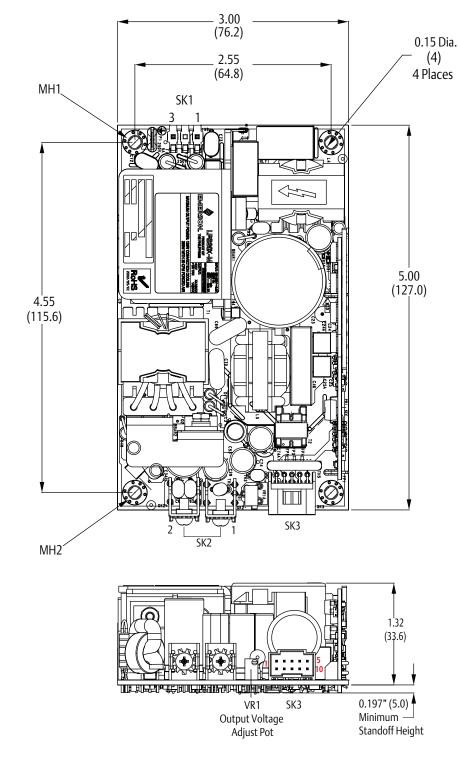
Ordering Information							
Model Number	Output Voltage	Minimum Load	Maximum Load with Convection Cooling	Maximum Load with 30CFM Forced Air	Peak Load	Regulation ²	Ripple P/P (PARD) ³
LPS202-M	5 V	0 A	20 A	40 A	44 A	±2%	50 mV
LPS203-M	12 V	0 A	10.3 A	20.8 A	22 A	±2%	120 mV
LPS204-M	15 V	0 A	8.3 A	16.6 A	18 A	±2%	150 mV
LPS205-M	24 V	0 A	5.2 A	10.4 A	11.5 A	±2%	240 mV
LPS208-M	48 V	0 A	2.6 A	5.2 A	5.8 A	±2%	480 mV

- 1. Peak current lasting <30 seconds with a maximum 10% duty cycle.
- $2. \ \, \text{At 25}^{\circ}\text{C including initial tolerance, line voltage, load currents and output voltages adjusted to factory settings}.$
- 3. Peak-to-peak with 20 mHz bandwidth and 10 μ F (tantalum capacitor) in parallel with a 0.1 μ F capacitor at rated line voltage and load ranges.

Pin Assignments				
Connector	LPS200-M			
SK1	Pin 1	Neutral		
	Pin 3	Line		
SK2	TB-1	Common		
	TB-2	Main output		
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	+12 V Fan		
	Pin 10	+12 Fan Return (isolated)		

Mating Connectors				
AC Input (SK1):	Molex 09-50-3031 (connector) PINS: 08-52-0072			
AC Ground:	Molex 01-90020001			
DC Output (SK2):	Molex 19141-0058/0063/0083 Spade lug based on Cable Ampacity/AWG			
Control Signals (SK3):	Molex 90142-0010 (USA) PINS: 90119-2110 or Amp: 87977-3 PINS: 87309-8			
Emerson Network Power Connector Kit #70-841-020, includes all of the above.				
1. Specificatio	1. Specifications subject to change without notice.			
2. All dimension	. All dimensions in inches (mm), tolerance is ±0.02" (±0.5mm)			
3. Mounting h	Mounting holes MH1 and MH2 should be grounded for EMI purposes.			
4. Mounting h	Mounting hole MH1 is safety ground connection.			
	Specifications are for convection rating at factory settings at 115 VAC input, 25 °C unless otherwise stated.			
	This power supply requires mounting on metal standoffs 0.20" (5m) in height.			
7. Warranty: 2	Warranty: 2 years			
8. Weight: 0.7	Weight: 0.75 lb/0.34 kg			

Mechanical Drawing



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