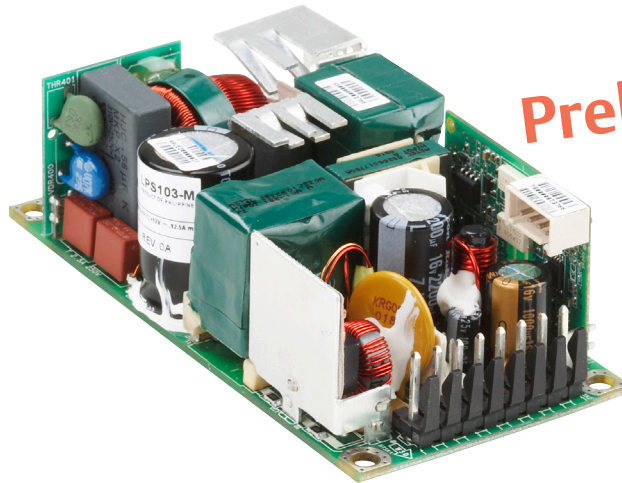


LPS100-M Series

150 Watts

Total Power: 80 - 150 Watts
Input Voltage: 90 - 264 Vac
of Outputs: Single



Special Features

- Medical and ITE safeties
- Active power factor correction
- 2" x 4" 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 12 V Fan output

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:	88% 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 μ A @ 50/60 Hz, 264 Vac input
Output	
Maximum power:	100 W for convection (80 W for LPS102-M); 150 W with 30 CFM forced air (120 W for LPS102-M)
Adjustment range:	\pm 10% minimum on the main outputs
Fan output:	12 V @ 1 A isolated, \pm 5%
Hold-up time:	10 ms @ 150 W load, 120 Vac input
Overload protection:	Short circuit protection on all outputs. Case overload protected @ 110-160% above rating
Overvoltage protection:	15-35% 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

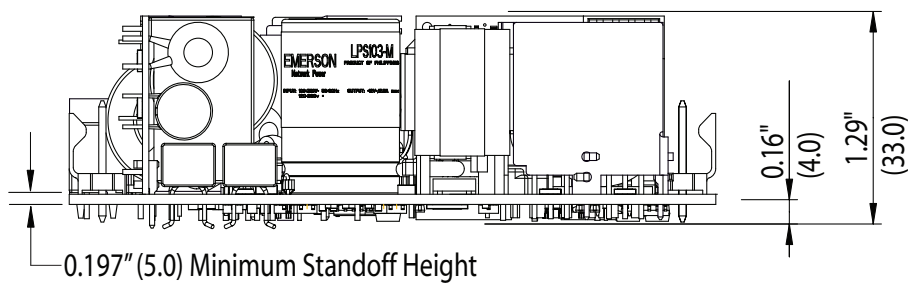
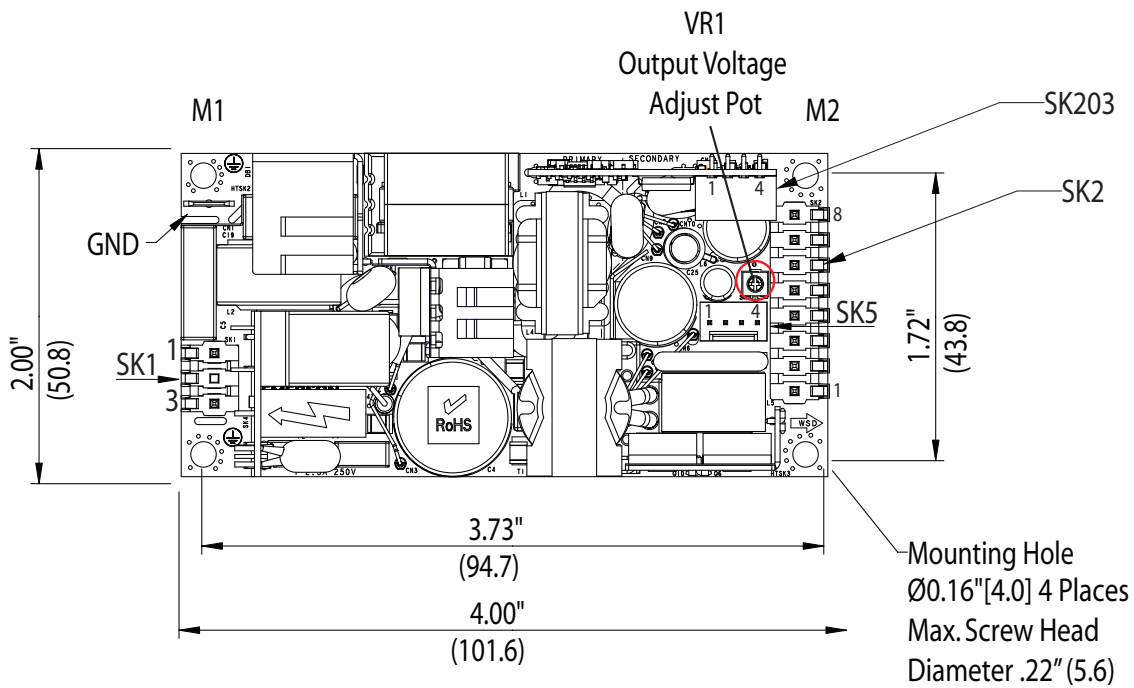
- TUV 60950, 60601-1
- UL 60950, 60601-1
- CSA 60950, 60601-1
- NEMKO 60950, 60601-1
- AUSTEL 60950, 60601-1
- CB Certificate & report
- CE Mark (LVD)

Environmental Specifications

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LPS100-M Series
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Operating temperature:	0° to 50 °C ambient derate each output as 2.5% per degree from 50° to 70 °C. -20 °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 demonstrated	>550,000 hours at full load and 25 °C ambient conditions

Mechanical Drawing



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 (PAR) ³
LPS102-M	5 V	0 A	16 A	24 A	30 A	±2%	50 mV
LPS103-M	12 V	0 A	8.3 A	12.5 A	14 A	±2%	120 mV
LPS104-M	15 V	0 A	6.7 A	10 A	11 A	±2%	150 mV
LPS105-M	24 V	0 A	4.2 A	6.3 A	7 A	±2%	240 mV
LPS108-M	48 V	0 A	2.1 A	3.1 A	3.5 A	±2%	480 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.

Pin Assignments

Connector LPS100-M

SK1	Pin1 Pin3	Neutral Line
SK2	Pin1 Pin2 Pin3 Pin4 Pin5 Pin6 Pin7 Pin8	GND GND GND GND +Vout +Vout +Vout +Vout
SK203	Pin1 Pin2 Pin3 Pin4	GND Power Fail - Remote Sense + Remote Sense
SK5	Pin1 Pin2 Pin3 Pin4	+12 V FAN +12 V FAN FAN GND FAN GND

Notes:

1. Specifications subject to change without notice.
2. All dimensions in inches (mm), tolerance is ±.02".
3. mounting holes MH1, MH2, MH3 should be grounded for EMI purpose
4. Mounting MH1 is safety ground connection
5. Specifications are for convection rating at factory settings at 115 Vac input 25 C deg unless otherwise stated.
6. This power supply requires mounting on metal standoffs 0.20" (5 m) in height.
7. Warranty: 2 year
8. Weight: 0.44 lb. / 0.20 kg

Mating Connectors

- (SK1)AC Input: Molex P/N 09-50-3031 or Landwin P/N: 306050302
- (SK2)DC Output: Molex P/N 09-50-3081 or Landwin P/N: 306050802
- (SK203) Remote Sense: Molex P/N 35155-0400 or Landwin P/N: 2640504A0
- (SK5) Fan: Molex P/N 22-10-2047 or Landwin P/N: 251050400

Astec Connector Kit # 70-841-025, includes all of the above.

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