# **LPT100-M Series** 130 Watts

**Total Power:** 80 - 130 Watts **Input Voltage:** 90 - 264 Vac **Triple** 



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## 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
- LPX50 enclosure kit available

## **Electrical Specifications**

#### Input

Input range: 90 - 264 Vac; 127 - 300 Vdc

Frequency: 47 - 63 Hz

Inrush current: 50 A max., cold start @ 25 °C Efficiency: 82% typical at full load

EMI/RFI: FCC Class B conducted; CISPR22 Class B conducted;

EN55022 Class B conducted; VDE0878PT3 Class B conducted

Safety ground 275  $\mu$ A @ 50/60 Hz, 264 Vac input

leakage current:

#### Output

Maximum power: 80 W for convection;

130 W with 200 LFM forced air

Adjustment range: All outputs adjustable - 40%, +10%, except for +24V output on LPT104-xxx

which will be -10%, +20%.

Hold-up time: 10 ms @ 130 W load, 120 Vac input

Overload protection: Short circuit protection on all outputs. Case overload

protected @ 110 - 160% above rating for V1 & V2, 110-190% for V3

Overvoltage protection: 15 - 35% above nominal output

#### **Logical Control**

Power failure: Active LowTTL 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 Mark (LVD)



# **Environmental Specifications**

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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

-40 °C to +85 °C

Electromagnetic designed to meet EN61000-4;

susceptibility:

-2, -3, -4, -5, -6, -8, -11 Level 3

Humidity:

Operating; non-condensing 10% to 95% RH

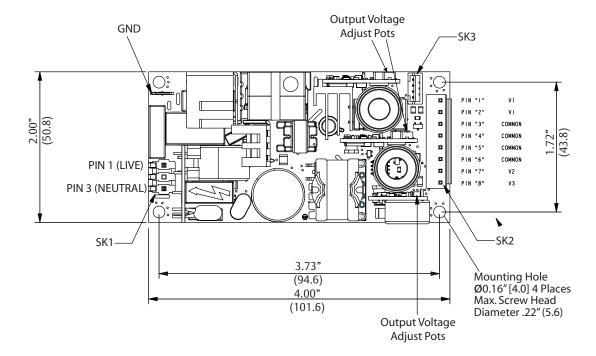
Vibration:

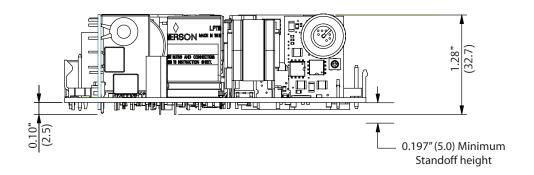
IEC68-2-6 to the levels of IEC721-3-2

> 550,000 hours at full load and 25 °C ambient conditions

#### **Mechanical Drawing**

MTBF demonstrated





Ordering Information							
Model Number	Output Voltage	Minimum Load	Maximum Load with Convection Cooling	Maximum Load with 30CFM Forced Air	Peak Load	Regulation <sup>2</sup>	Ripple P/P (PARD) <sup>3</sup>
	+3.3 V	0 A	13 A	18 A	20 A	±2%	50 mV
LPT101-M	+5 V	0 A	5 A	9 A	10 A	±5%	50 mV
	+12 V	0 A	1 A	2.3 A	2.3 A	±5%	120 mV
	+5 V	0 A	13 A	18 A	20 A	±2%	50 mV
LPT102-M	+12 V	0 A	5 A	9 A	10 A	±5%	120 mV
	-12 V	0 A	1 A	1.5 A	2 A	±5%	120 mV
	+5 V	0 A	13 A	18 A	20 A	±2%	50 mV
LPT103-M	+15 V	0 A	4 A	7.2 A	8 A	±5%	150 mV
	-15 V	0 A	1 A	1.5 A	2 A	±5%	150 mV
	+5 V	0 A	13 A	18 A	2 A	±2%	50 mV
LPT104-M	+24 V	0 A	1.5 A	3 A	3.5 A	±7%	240 mV
	+12 V	0 A	1 A	1.5 A	2 A	±5%	120 mV

- 1. Peak current lasting < 15 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  $\mu F$  (tantalum capacitor) in parallel with a 0.1  $\mu F$  capacitor at rated line voltage and load ranges.

all of the above

Mating Connectors

Pin Assignments						
Connector		LPT100-M				
SK1	PIN 1	Neutral				
	PIN 3	Line				
SK2	PIN 1	V1out				
	PIN 2	V1out				
	PIN 3	GND				
	PIN 4	GND				
	PIN 5	GND				
	PIN 6	GND				
	PIN 7	V2out				
	PIN 8	V3out				
SK3	PIN 1	Power Fail				
	PIN 2	GND				
	PIN 3	+ Remote Sense				
	PIN 4	- Remote Sense				

	AC Input (SK1):	Molex P/N 09-50-8031
		PINS: 08-52-0113
	AC Ground:	Molex P/N 01-9002001
	DC Output (SK2):	JST P/N VHR-8N
		PINS: SVH-21T-P1.1
	Remote Sense (SK3):	Molex P/N 87639-0400
		PINS: 50212-8100
	Emerson Network Po	wer Connector Kit #70-841-026, includes

#### 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 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

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LPT100-M Series

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