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LPT50-M Series 55 Watts

Total Power: 47 - 55 Watts **Input Voltage:** 90 - 264 VAC 127 - 300 VDC # of Outputs:

Triple





Special Features

- Medical Safety Approvals
- Universal input • 2" x 4" footprint
- Less than 1U high
- Overpower and short circuit
- protection
- High efficiency
- High MTBF
- Built in EMI filter (CISPR 22 Class B)
- LED power good indicator
- Input power < 74 watts
- Complies with EN61000-3-2
- 85 kHz switching frequency
- Dual AC fuses
- UL Class I approved
- LPX50 enclosure kit available

Safety

UL 60601-1

• **CSA:** CSA-C22.2 No. 601.1-M90

• VDE: EN60601-1 LVD • CE:

Electrical Specifications

Input

90 - 264 VAC (wide range) 127-300 Vdc Input range:

Frequency:

Inrush current: < 60 A peak @ 230 VAC, cold start @ 25 °C

Efficiency: 80% typical at full load

EMI/RFI: FCC Class B conducted; CISPR 22 Class B conducted; EN55022 Class B

conducted, EN60601-1-2

Safety ground leakage 275uA @ 50/60 Hz; 264 VAC input

current:

Output

Maximum power: 55 W for convection (LPT51, 47.4 W) Hold-up time: 10/20 ms 115/230 VAC input line Overpower protection: Short circuit protection on all outputs.

Case overpower protected @ 110-160% of normal rating

Overvoltage protection: 30-50% above nominal output

Environmental Specifications

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

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





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Ordering Information								
Model Number	Output Voltage	Minimum Load	Maximum Load with Convection Cooling	Peak Load¹	Regulation ²	Ripple P/P (PARD) ³		
LPT51-M	+3.3 V	0.8 A	8 A	9 A	±2%	50 mV		
	+5 V	0.1 A	3 A	4 A	±6%	50 mV		
	+12 V	0 A	0.5 A	1 A	±5%	120 mV		
LPT52-M	+5 V	0.5 A	8 A	9 A	±2%	50 mV		
	+12 V	0.1 A	3 A	4 A	±5%	120 mV		
	-12 V	0 A	0.5 A	1 A	±5%	120 mV		
LPT53-M	+5 V	0.5 A	8 A	9 A	±2%	50 mV		
	+15 V	0.1 A	2.4 A	3.2 A	±5%	150 mV		
	-15 V	0 A	0.5 A	0.7 A	±5%	150 mV		
LPT54-M	+5 V	0.5 A	8 A	9 A	±2%	50 mV		
	+24 V	0.1 A	1.5 A	2 A	±7%	240 mV		
	+12 V	0 A	0.5 A	0.7 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 μ F (tantalum capacitor) in parallel with a 0.1 μ F capacitor at rated line voltage and load ranges.

Pin Assignments								
	LPT51-M	LPT52-M	LPT53-M	LPT54-M				
SK1-1	Line	Line	Line	Line				
SK1-3	Neutral	Neutral	Neutral	Neutral				
SK2-1	+3.3 V	+5 V	+5 V	+5 V				
SK2-2	+3.3 V	+5 V	+5 V	+5 V				
SK2-3	Common	Common	Common	Common				
SK2-4	Common	Common	Common	Common				
SK2-5	+12 V	-12 V	-15 V	+12 V				
SK2-6	5 V	+12 V	+15 V	+24 V				

Mating Connectors

AC Input: Molex 09-50-8031 (USA)

09-91-0300 (UK) PINS: 08-52-0113

DC Outputs: Molex 09-50-8061 (USA)

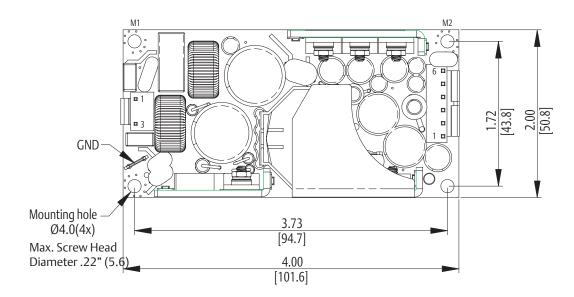
09-91-0600 (UK) PINS: 08-52-0113

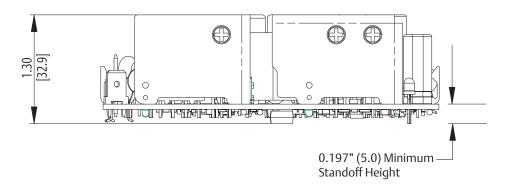
Emerson Network Power Connector Kit #70-841-006, includes all of the above

Notes:

- 1. Specifications subject to change without notice.
- 2. All dimensions in inches (mm), tolerance is ± 0.02 " (± 0.5 mm)
- 3. Mounting holes M1 and M2 should be grounded for EMI purposes.
- 4. Mounting hole M1 is safety ground connection.
- 5. Specifications are for convection rating at factory settings at 115 VAC input, 25 °C unless otherwise stated.
- 6. Warranty: 2 year
- 7. Weight: 0.45 lbs/0.20 kg

Mechanical Drawing





Americas

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