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LPT50 Series 55 Watts

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



ROHS 2002/95/EC

Electrical Specifications

90 - 264 VAC (wide range) 127-300 Vdc
47-440 Hz
< 60 A peak @ 230 VAC, cold start @ 25 °C
80% typical at full load
FCC Class B conducted; CISPR 22 Class B conducted; EN55022 Class B conducted
0.5 mA @ 50/60 Hz; 264 VAC input
55 W for convection (LPT51, 47.4 W)
10/20 ms 115/230 VAC input line
Short circuit protection on all outputs.
Case overpower protected @ 110-160% of normal rating
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 °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 demonstrated:	> 550,000 hours at full load and 25 °C ambient conditions





Special Features

- 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
- UL Class I approved
- LPX50 enclosure kit available

Safety

- UL: UL 60950-1
- **CSA:** CSA-C22.2 No. 60950-1
- TUV: EN60950-1
- **CB:** Certificate and report
- CE: LVD & EMC

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Ordering Information							
Model Number	Output Voltage	Minimum Load	Maximum Load with Convection Cooling	Peak Load ¹	Regulation ²	Ripple P/P (PARD) ³	
LPT51	+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	+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	+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	+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.

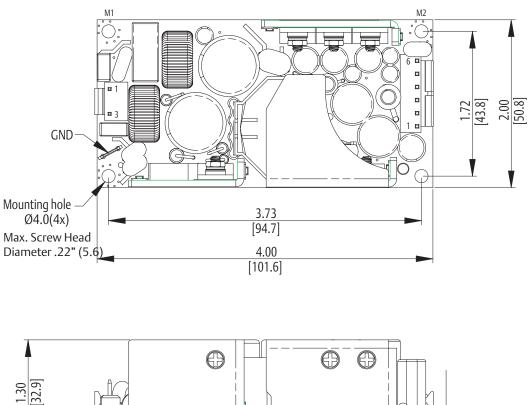
3. Peak-to-peak with 20 MHz bandwidth and 10 μ F (tantalum capacitor) in parallel with a 0.1 μ F capacitor at rated line voltage and load ranges.

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

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 above	all of the
Notes:	
1. Specifications subject to change without notice.	

- 2. All dimensions in inches (mm), tolerance is ±0.02" (±0.5mm)
- 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 $^\circ C$ unless otherwise stated.
- 6. Warranty: 2 year
- 7. Weight: 0.45 lbs/0.20 kg

Mechanical Drawing



Standoff Height

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For global contact, visit:

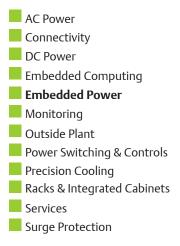
www.PowerConversion.com

techsupport.embeddedpower @emerson.com

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