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LPT50 Series

50 Watts

Total Power: 47 - 55 Watts Input Voltage: 90-264 VAC

127-300 VDC

of Outputs: Triple



- Universal input2" x 4" footprint
- 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
- UL Class I approved

Safety

UL UL 60950-1

CSA CSA-C22.2 No. 60950-1

TUV EN60950-1

CB Certificate and report

CE LVD & EMC



Electrical Specifications

Input

Input range 90-264 VAC (wide range) 127-300 VDC

Frequency 47-440 Hz

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

Safety ground 0.5mA @ 50/60 Hz, 264 VAC input

leakage current

Output

Maximum power 55 W for convection (LPT51, 47.4W)
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 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





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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	+3.3V	0.8A	8A	9A	±2%	50 mV	
	+5V	0.1A	3A	4A	±6%	50mV	
	+12V	0A	0.5A	1A	±5%	120mV	
LPT52	+5V	0.5A	8A	9A	±2%	50 mV	
	+12V	0.1A	3A	4A	±5%	120mV	
	-12V	0A	0.5A	1.0A	±5%	120mV	
LPT53	+5V	0.5A	8A	9A	±2%	50 mV	
	+15V	0.1A	2.4A	3.2A	±5%	150mV	
	-15V	0A	0.5A	0.7A	±5%	150mV	
LPT54	+5V	0.5A	8A	9A	±2%	50 mV	
	+24V	0.1A	1.5A	2A	±7%	240mV	
	+12V	0A	0.5A	0.7A	±5%	120mV	

- 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.

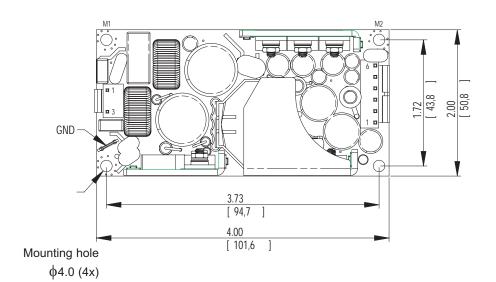
Pin Assignments							
Connector	LPT51	LPT52	LPT53	LPT54			
SK1-1	Line	Line	Line	Line			
SK1-3	Neutral	Neutral	Neutral	Neutral			
SK2-1	+3.3 V	+5 V	+5V	+5V			
SK2- 2	+3.3 V	+5 V	+5V	+5V			
SK2-3	Common	Common	Common	Common			
SK2-4	Common	Common	Common	Common			
SK2-5	12V	-12V	-15V	+12V			
SK2-6	5V	+12V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

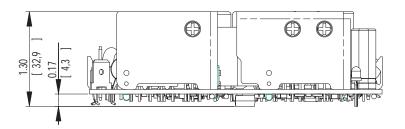
Mating Con	nectors
AC Input:	Molex 09-50-8031 (USA)
-	09-91-0300 (UK)
	PINS: 08-52-0113
DC Outputs:	,
	09-91-0600 (UK)
	PINS: 08-52-0113
Astec Connec	ctor Kit #70-841-006, includes all of the above

- 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: 1 year
- 7. Weight: 0.45lbs/0.20kg

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Mechanical Drawing





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