

LPT50-M Series

55 Watts

Data Sheet

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
- LPX100 enclosure kit available
- RoHS compliant

SAFETY

UL: UL 60601-1

CSA: CSA-C22.2 No. 601.1-M90

VDE: EN60601-1CE: LVD



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, EN60601-1-2			
Safety ground leakage current	275 μA @ 50/60 Hz; 264 Vac input			
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 °C to 50 °C ambient. Derate each output as 2.5% per degree from 50 °C to 70 °C20 °C startup		
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		



Ordering Information						
Model Number	Output Voltage	Minimum Load	Maximum Load with Convection Cooling	Peak Load ¹	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.

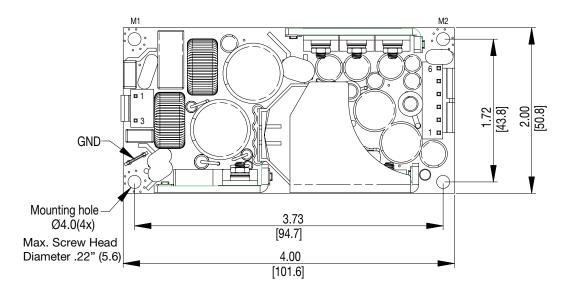
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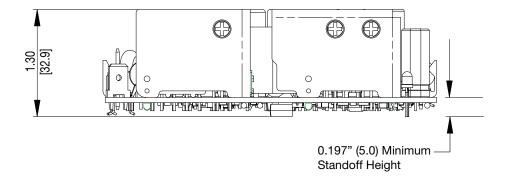
- 3. Peak-to-peak with 20 MHz bandwidth and 10 µF (tantalum capacitor) in parallel with a 0.1 µF capacitor at rated line voltage and load ranges.
- 4. This product is a Component Power Supply and is only for inclusion by professional installers within other equipment and must not be operated as a standalone product. EMC compliance to appropriate standards must be verified at the system level. This product is for sale to OEMs and System Integrators, including through Distribution Channels. It is not intended for sale to End Users.

Pin Assignments				
Connector	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
Artesyn Embedded Power Co	onnector Kit #70-841-006, includes all of the above

Mechanical Drawing





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 °C unless otherwise stated.
- 6. Warranty: 2 year
- 7. Weight: 0.45 lbs/0.20 kg

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