

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</p>
- Complies with EN61000 -3-2
- 85 kHz switching frequency
- Dual AC fuses
- UL Class I approved
- LPX50 enclosure kit available

SAFETY

- UL: UL 60601-1
- CSA: CSA-C22.2 No. 601.1-M90
- VDE: EN60601-1
- CE: LVD





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:	275uA @ 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° to 50 °C ambient. Derate each output as 2.5% per degree from 50° 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.

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.

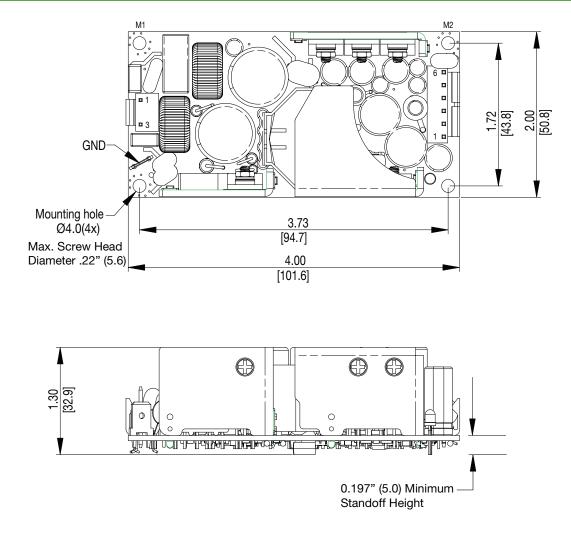
Pin Assignments				
Connector	LPT51-M	LPT52-M	LPT53-M	LPT54-M
SK1-1	Line	Line	Line	Line
SK1-3	Neutral	Neutral	Neutral	Neutral
SK2-1	+3.3 V	+5 V	+5 V	+5 V
SK2-2	+3.3 V	+5 V	+5 V	+5 V
SK2-3	Common	Common	Common	Common
SK2-4	Common	Common	Common	Common
SK2-5	+12 V	-12 V	-15 V	+12 V
SK2-6	5 V	+12 V	+15 V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