

LPT40 Series

40 Watts

Data Sheet

Total Power: 44 - 55 Watts Input Voltage: 85 - 264 Vac 120 - 300 Vdc

of Outputs: Triple

SPECIAL FEATURES

- Universal input
- 3" x 5" footprint
- Less than 1U high
- Remote sense on main output
- Built-in EMI filter
- Low output ripple
- Adjustable main output
- Overvoltage protection
- Overload protection
- 110 KHz switching frequency
- LPX40 enclosure kit available
- RoHS compliant

SAFETY

UL UL60950 E132002

cUL 60950

Level 3 LR53982C

■ NEMKO EN 60950/EMKO-TUE

P95100411 (74-sec) 203

CB Certificate and report

1118, 1122, 1123, 1124

CE Mark (LVD)



Electrical Specifications				
Input				
Input range	85 - 264 Vac; 120 - 300 Vdc			
Frequency	47 - 440 Hz			
Inrush current	< 18 A peak @ 115 Vac; < 36 A peak @ 230 Vac, cold start @ 25 °C			
Input current	1 A max. (RMS) @ 115 Vac			
Efficiency	70% typical at full load (60% for LPT41)			
EMI	FCC Class B conducted; CISPR 22 Class B conducted EN55022 Class B conducted; VDE 0878 PT3 Class B conducted			
Safety ground leakage current	< 0.5 mA @ 50/60 Hz, 264 Vac input			
Output				
Maximum power	40 W for convection (LPT41, 25 W); 55 W with 30CFM forced air (LPT41, 41 W)			
Cross regulation	±2% on output 1; ±5% on outputs 2, 3			
Adjustment range	-5, +10% minimum			
Hold-up time	20 ms @ 40 W load, 115 Vac nominal line			
Overload protection	Short circuit protection on all outputs. Case overload protected @ 110% to 145% above peak rating			
Overvoltage protection	5.7 to 6.7 Vdc on the main outputLPT41: 3.6 to 4.6 Vdc			
Remote sense	Compensates for 0.5 V lead drop min. Will operate without remote sense connected. Reverse connection protected.			

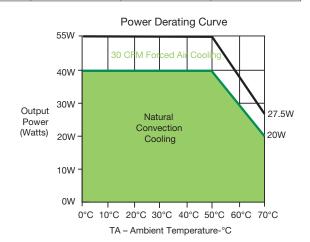


Environmental Specifications				
Operating temperature	0 °C to 50 °C ambient derate each output at 2.5% per degree from 50 °C to 70 °C, -20 °C start up.			
Electromagnetic susceptibility	Designed to meet IEC 801, -2, -3, -4, -5, -6, Level 3			
Humidity	Operating; non-condensing 5% to 95%			
Vibration	Three orthogonal axes, sweep at 1 oct/min, 5 min. dwell at four major resonances 0.75 G peak 5 Hz to 500 Hz, operational			
Storage temperature	-40 °C to 85 °C			
Temperature coefficient	±.04% per °C			
MTBF demonstrated	> 550,000 hours at full load and 25 °C ambient conditions			

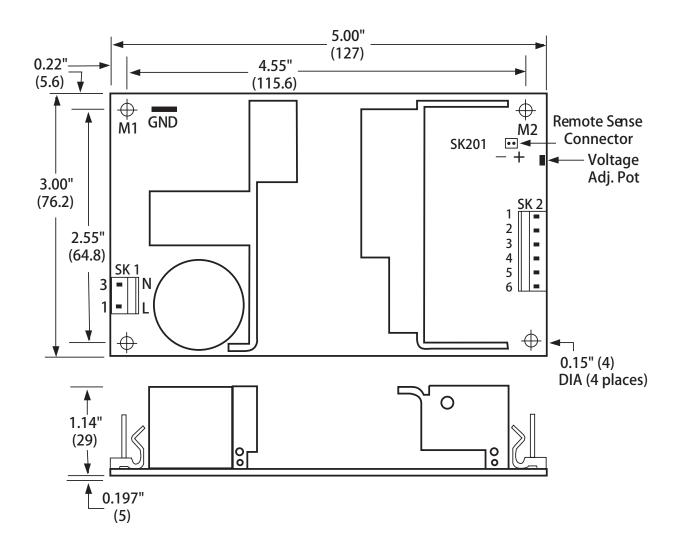
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Ordering Information							
Model Number	Output Voltage	Minimum Load	Maximum Load with Convection Cooling	Maximum Load with 30CFM Forced Air	Peak Load¹	Regulation ²	Ripple P/P(PARD) ³
LPT41	+3.3 V	0.5 A	4 A	7 A	7 A	±2%	50 mV
	+5 V	0 A	1.5 A	2.0 A	2.5 A	±2%	50 mV
	+12 V	0 A	0.5 A	0.7 A	0.7 A	±5%	120 mV
LPT42	+5 V	0.4 A	4 A	5 A	7 A	±2%	50 mV
	+12 V	0.2 A	2 A	2.5 A	4 A	±5%	120 mV
	-12 V	0 A	0.5 A	0.7 A	1 A	±5%	120 mV
LPT43	+5 V	0.5 A	6 A	8 A	9 A	±2%	50 mV
	+12 V	0 A	0.5 A	0.7 A	1 A	±5%	120 mV
	-12 V	0 A	0.5 A	0.7 A	1 A	±5%	120 mV
LPT44	+5 V	0.4 A	4 A	5 A	7 A	±2%	50 mV
	+12 V	0.2 A	2 A	2.5 A	4 A	±5%	120 mV
	-5 V	0 A	0.5 A	0.7 A	1 A	±5%	50 mV
LPT45	+5 V	0.4 A	4 A	5 A	7 A	±2%	50 mV
	+15 V	0.2 A	2 A	2.5 A	3 A	±5%	150 mV
	-15 V	0 A	0.5 A	0.7 A	1 A	±5%	150 mV
LPT46	+5 V	0.4 A	4 A	5 A	6 A	±2%	50 mV
	+24 V	0.1 A	1.0 A	1.5 A	2 A	±7%	240 mV
	+12 V	0 A	0.5 A	0.7 A	1 A	±5%	120 mV
LPT47	+5 V	0.4 A	4 A	5 A	6 A	±2%	50 mV
	+24 V	0.2 A	1.0 A	1.5 A	2 A	±7%	240 mV
	-12 V	0 A	0.5 A	0.7 A	1 A	±5%	120 mV

- 1. Peak current lasting $<\!30$ seconds with a maximum 10% duty cycle.
- 2. At 25 $^{\circ}$ 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 in parallel with a 0.1 μF capacitor at rated line voltage and load ranges.
- 4. Minimum Loads are required.
- 5. 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.



Mechanical Drawing



tp tp tp

Pin Assignments							
Connector	LPT41	LPT42	LPT43	LPT44	LPT45	LPT46	LPT47
SK1-1	Line						
SK1-3	Neutral						
SK2-1	5V	+12V	+12V	+12V	+15V	+24V	+24V
SK2-2	3.3V	+5V	+5V	+5V	+5V	+5V	+5V
SK2-3	3.3V	+5V	+5V	+5V	+5V	+5V	+5V
SK2-4	Common						
SK2-5	Common						
SK2-6	12V	-12V	-12V	-5V	-15V	+12V	-12V
SK201-1	+Sense						
SK201-2	-Sense						

In the same

Mating Connectors			
AC Input	Molex 09-50-8031 (USA) 09-93-0300 (UK) PINS: 08-52-0113		
DC Outputs	Molex 09-50-8061 (USA) 09-93-0600 (UK) PINS: 08-52-0113		
Remote Sense	Molex 22-01-2025 PINS: 08-52-0123		
Artesyn Embedded Technologies Connector 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: 2 year
- 7. Weight: 0.5 lbs/0.23 kg

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