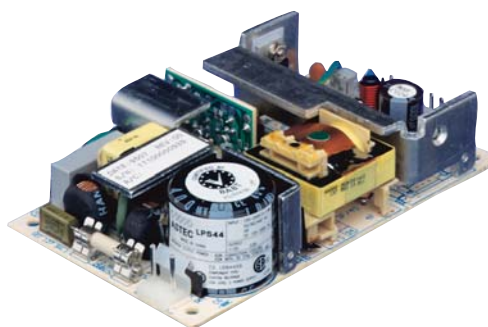


LPS40-M Series

40 Watts

Medical

Total Power: 40-55 Watts
Input Voltage: 85-264 VAC
120-300 VDC
of Outputs: Triple



Electrical Specifications

Input

Input range	85-264 VAC; 120-300 VDC
Frequency	47-440 Hz
Inrush current	<18A peak @ 115VAC; <36A peak @ 230VAC, cold start @ 25°C
Input current	1A max. (RMS) @ 115VAC
Efficiency	70% typical at full load
EMI filter	FCC Class B conducted; CISPR 22 Class A conducted; EN55022 Class A conducted; VDE 0878 PT3 Class A conducted
Safety ground leakage current	<75μA @ 50/60 Hz, 264 VAC input

Output

Maximum power	40W for convection; 55W with 30CFM forced air
Adjustment range	-5, +10% minimum
Hold-up time	20ms @ 40W load, 115VAC nominal line
Overload protection	Short circuit protection on all outputs Case overload protected @ 110-145% above peak rating
Overvoltage protection	5V output; 5.7 to 6.7VDC. Other outputs 10% to 25% above nominal output
Remote sense	Compensates for 0.5 V lead drop minimum. Will operate without remote sense connected. Reverse connection protected.

Special Features

- Medical safety approvals
- Universal input
- 3" x 5" footprint
- Less than 1U high
- Remote sense on main output
- Low output ripple
- Adjustable 5V output
- Overvoltage protection
- Overload protection
- 110 KHz switching frequency
- LPX40 enclosure kit available

Safety

VDE 0750/EN60601-1 (IEC601)
UL UL2601 E182560
CSA CSA 22.2 No.601.1
LR109492
CEMark (LVD)



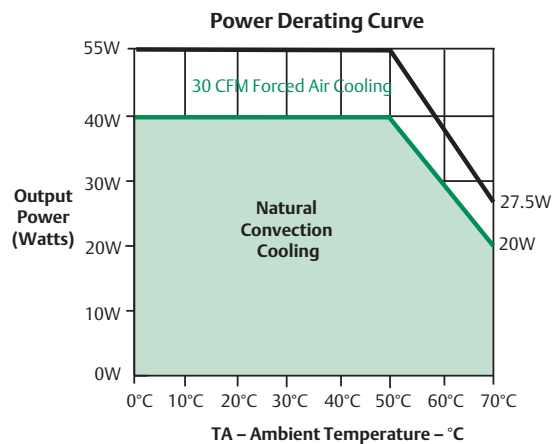
Environmental Specifications

Operating temperature:	0° to 50°C ambient. Derate each output 2.5% per degree from 50° to 70°C, -20°C startup
Storage temperature:	-40°C to +85°C
Temperature coefficient:	±0.4% per °C
Electromagnetic susceptibility:	Designed to meet IEC 801, -2, -3, -4, -5, -6, Level 3
Humidity:	Operating; non-condensing 5% to 95% RH
Vibration:	Three orthogonal axes, sweep at 1 oct/min, 5 min. dwell at four major resonances 0.75G peak 5Hz to 500Hz, operational
MTBF demonstrated:	>550,000 hours at full load and 25°C ambient conditions

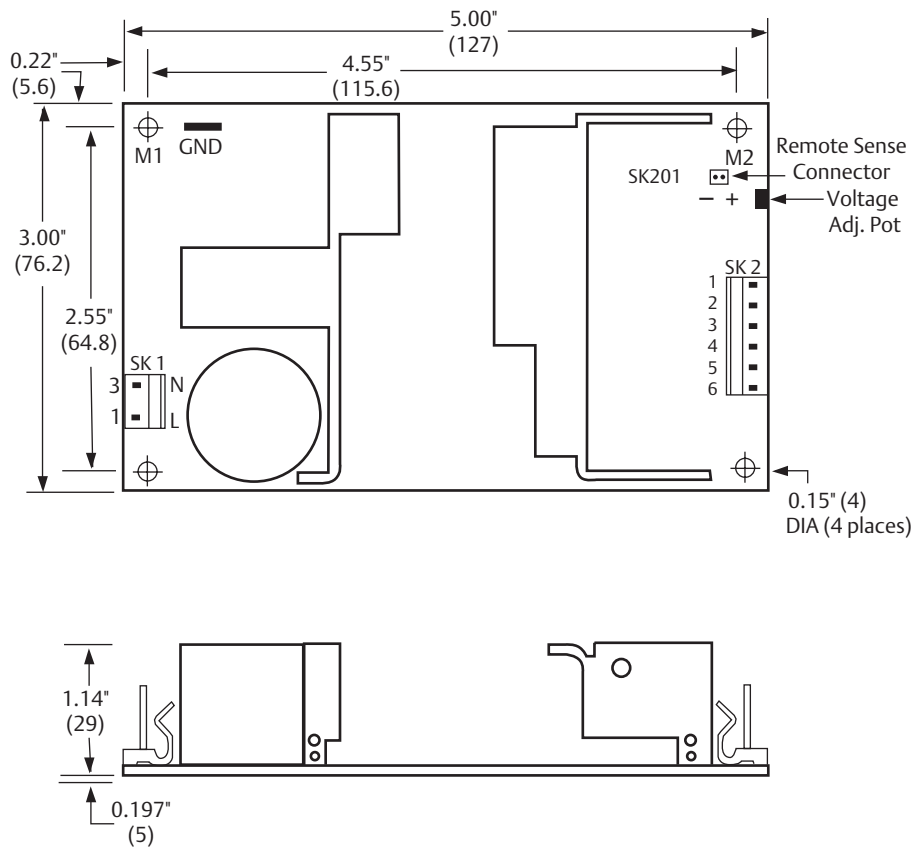
Ordering Information

Model Number	Output Voltage	Minimum Load	Maximum Load with Convection Cooling	Maximum Load with 30CFM forced Air	Peak Load ¹	Regulation ²	Ripple P/P (PARD) ³
LPS42-M	5V	0A	8A	11A	12A	±2%	50 mV
LPS43-M	12V	0A	3.3A	4.5A	5A	±2%	120 mV
LPS44-M	15V	0A	2.6A	3.6A	4A	±2%	150mV
LPS45-M	24V	0A	1.6A	2.3A	2.5A	±2%	240mV

1. Peak current lasting <30 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 in parallel with a 0.1 µF capacitor at rated line voltage and load ranges.



Mechanical Drawing



Pin Assignments

Connector	LPS42-M	LPS43-M	LPS44-M	LPS45-M
SK1-1	Neutral	Neutral	Neutral	Neutral
SK1-3	Line	Line	Line	Line
SK2-1	+5V	+12V	+15V	+24V
SK2-2	+5V	+12V	+15V	+24V
SK2-3	+5V	+12V	+15V	+24V
SK2-4	Common	Common	Common	Common
SK2-5	Common	Common	Common	Common
SK2-6	Common	Common	Common	Common
SK201-1	+Sense	+Sense	+Sense	+Sense
SK201-2	-Sense	-Sense	-Sense	-Sense

Mating Connectors

AC Input:	Molex 09-50-8031 (USA) 09-91-0300 (UK) PINS: 08-58-0111
DC Outputs:	Molex 09-50-8061 (USA) 09-91-0600 (UK) PINS: 08-58-0111
Remote Sense:	Molex 22-01-2025 PINS: 08-50-0114
Astec Connector Kit #70-841-006, includes all of the above	
- Specifications subject to change without notice. - All dimensions in inches (mm), tolerance is $\pm 0.02"$ ($\pm 0.5\text{mm}$) - Mounting holes M1 and M2 should be grounded for EMI purposes. - Mounting hole M1 is safety ground connection. - Specifications are for convection rating at factory settings at 115 VAC input, 25°C unless otherwise stated. - Warranty: 2 year - Weight: 0.5lbs/0.23kg	

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