# 40 Watts LPS40 Series MEDICAL



### **Special Features**

- Medical Safety Approvals
- Universal input
- 3" x 5" footprint
- Remote sense
- Built-in EMI filter
- Low output ripple
- Adjustable output
- Overvoltage protection
- Overload protection
- 110 KHz switching frequency
- LPX40 enclosure kit available

Total Power: Input Voltage:

# of Outputs:

40-55 Watts 85-264 VAC 120-300 VDC Single

### **Electrical Specs**

**Input** Input range

Frequency Inrush current

Input current Efficiency EMI filter

Safety ground leakage current

Output

Maximum power

Adjustment range Hold-up time

Overload protection

Overvoltage protection

Remote sense

85-264 VAC; 120-300 VDC 47-440 Hz <18 A peak @ 115 VAC; <36 A peak @ 230 VAC, cold start @ 25°C 1 A max. (RMS) @ 115 VAC 70% typical at full load FCC Class A conducted CISPR 22 Class A conducted EN55022 class A conducted VDE 0878 PT3 class A conducted

<75 µA @ 50/60 Hz, 264 VAC input

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

### Environmental

Operating temperature: 0° to 50°C ambient derate each output at 2.5% per degree from 50° to 70°C

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° to 85°C

Temperature coefficient: ±.04% per °C

MTBF demonstrated: >550,000 hours at full load and 25°C ambient conditions

Safety								
VDE UL CSA CE	0750/EN60601-1 (IEC601) UL2601 CSA 22.2 no. 601.1 Mark (LVD)	113769 E182560 LR109492						



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# **Ordering Information**

Model Number	Output Voltage	Minimum Load	Maximum Load with Convection Cooling	Maximum Load with 30 CFM Forced Air	Peak Load1	Regulation2	Ripple P/P (PARD)3
LPS42-M	5 V	0 A	8 A	11 A	12 A	±2%	50 mV
LPS43-M	12 V	0 A	3.3 A	4.5 A	5 A	±2%	120 mV
LPS44-M	15 V	0 A	2.6 A	3.6 A	4 A	±2%	150 mV
LPS45-M	24 V	0 A	1.6 A	2.3 A	2.5 A	±2%	240 mV

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  $10 \,\mu$ F in parallel with a 0.1  $\mu$ F capacitor at rated line voltage and load ranges.

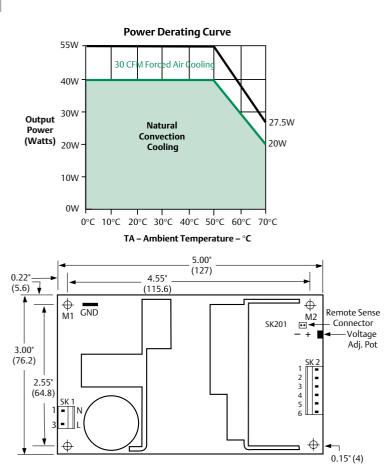
# **Pin Assignments**

Connector	LPS	42	LPS43	LPS44	LPS45
SK1-1 SK1-3	Neu Line	itral	Neutral Line	Neutral Line	Neutral Line
SK2-1 SK2-2 SK2-3 SK2-4 SK2-5 SK2-6 SK201-1 SK201-2	+5 \ +5 \ Con Con +Se	/ / nmon nmon nmon nse	Common	+15 V +15 V Common Common +Sense	Common
<b>Mating Con</b> AC Input:	<b>tors</b> Molex 09-50-8031 (USA) 09-91-0300 (UK) PINS: 08-58-0111				
. 09		09-9	lex 09-50-8061 (USA) 91-0600 (UK) S: 08-58-0111		
Remote Ser	nse:		x 22-01-20 08-50-01		

Astec Connector Kit #70-841-006, includes all of the above.

#### Notes:

- 1. Specifications subject to change without notice.
- 2. All dimensions in inches (mm), tolerance is ±.02"
- 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





DIA (4 places)