

LPT 60 Medical

60 Watts

LPT 60 Series

Total Power	60 - 80 Watts
Input Voltages	85 - 264 VAC 120 - 370 VDC
# of Outputs	Triple



SPECIAL FEATURES

- Medical safety approvals
- Universal input
- High efficiency
- Remote sense on main output
- Built-in EMI filter
- Low output ripple
- Adjustable 5V output
- Overvoltage protection
- Overload protection
- Enclosure kit available (see page 62)

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 EN61000-4, -2, -3, -4, -5, -6, Level 3

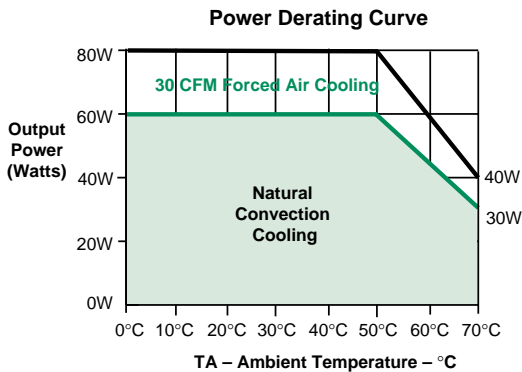
Humidity: Operating; non-condensing 5% to 95%

Vibration: Three orthogonal axes, sweep at 1 oct/min, 5 min. dwell at four major resonances 0.75G 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



ELECTRICAL SPECIFICATIONS

Input

- Input range 85-264 VAC
120-370 VDC
- Frequency 47-440 Hz
- Inrush current <18 A peak @ 115 VAC;
<36 A peak @ 230 VAC,
cold start @ 25°C
- Input current 1.5 A max. (RMS) @ 115 VAC
- Efficiency 70% typical at full load
- EMI filter FCC Class A conducted
CISPR 22 Class A conducted
EN55022 Class A conducted
VDE 0878 PT3 Class A conducted
- Safety ground
leakage current <75 µA max. @ 50/60 Hz, 264 VAC input

Output

- Maximum power 60 W for convection;
80 W with 30 CFM forced air
- Minimum load minimum load required, see table
- Adjustment range -5, +10% minimum
- Cross regulation ±2% on output 1;
±5% on outputs 2, 3
- Hold-up time 20 ms @ 60 W load, 115 VAC nominal line
- Overload protection Short circuit protection on all outputs.
Case overload protected @ 110-145%
above peak rating
- Overvoltage protection 5.7-6.7 VDC on main output
- Remote sense 5V output compensates for 0.5 V lead
drop min. Will operate without remote
sense connected. Reverse connection
protected.

SAFETY

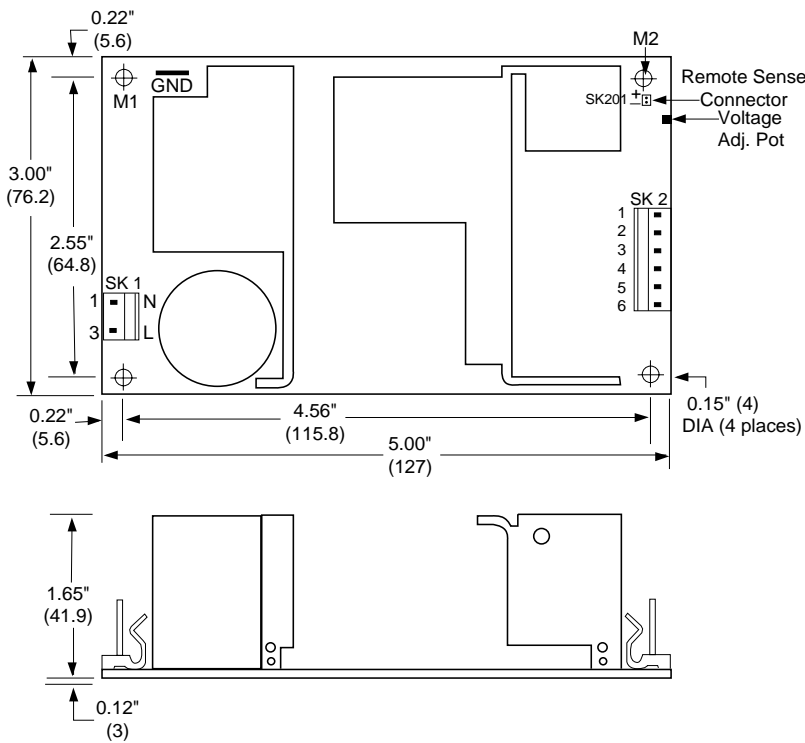
VDE	0750/EN60601-1 (IEC601)	21310-3336-0015
UL	UL2601	E182560
CSA	CSA 22.2 No. 601.1	LR109492
CE	Mark (LVD)	

ORDERING INFORMATION

Model Number	Output Voltage	Minimum Load	Maximum Load with Convection Cooling	Maximum Load with 30 CFM Forced Air	Peak Load ¹	Regulation ²	Ripple P/P (PARD) ³
LPT62-M	+5 V	0.7 A	7 A	8 A	10 A	±2%	50 mV
	+12 V	0.3 A	3 A	3.5 A	6 A	±5%	120 mV
	-12 V	0 A	0.7 A	1 A	1.5 A	±5%	120 mV
LPT63-M	+5 V	0.7 A	7 A	8 A	10 A	±2%	50 mV
	+15 V	0.3 A	2.8 A	3.3 A	4 A	±5%	150 mV
	-15 V	0 A	0.7 A	1 A	1.5 A	±5%	150 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 µF in parallel with a 0.1 µF capacitor at rated line voltage and load ranges.
4. Minimum Loads are required for correct operation. Unit will self protect if not connected.

DRAWINGS



PIN ASSIGNMENTS

Connector	LPT62-M	LPT63-M
SK1-1	Neutral	Neutral
SK1-3	Line	Line
SK2-1	+12 V	+15 V
SK2-2	+5 V	+5 V
SK2-3	+5 V	+5 V
SK2-4	Common	Common
SK2-5	Common	Common
SK2-6	-12 V	-15 V
SK201-1	+5V Sense	+5V Sense
SK201-2	-5V Sense	-5V Sense

MATING CONNECTORS

AC Input: Molex 09-50-8031 (USA)
26-03-4030 (UK)
PINS: 05-58-0189

DC Outputs: Molex 09-50-8061 (USA)
26-03-4061 (UK)
PINS: 05-58-0189

Remote Sense: Molex 22-01-2025
PINS: 08-50-0114

Astec Connector Kit #70-841-006

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
7. Weight: 0.75 lb. / 0.34 kg

