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ELECTRONICS

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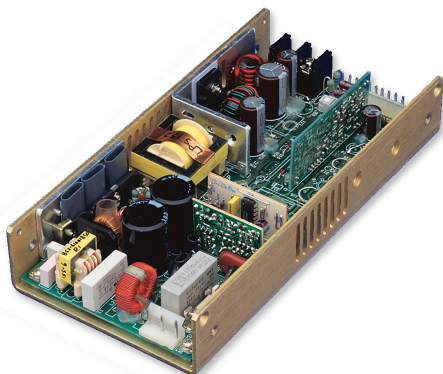
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Jameco Part Number 1773371

# 150 Watts

## LPS150 Series

**Total Power:** 110-150 Watts  
**Input Voltage:** 85-132 / 170-264 VAC  
 220-300 VDC  
**# of Outputs:** Single



### Special Features

- Auto ranging input
- Remote sense
- Remote inhibit
- Power fail
- Single wire current sharing
- Built-in EMI filter
- Low output ripple
- Adjustable output
- 135 khz switching frequency
- Overvoltage protection
- Overload protection
- Optional cover (-C suffix).

### 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:  $\pm 0.04\%$  per °C

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

### Electrical Specs

#### Input

Input range	85-132 VAC or 170-264 VAC automatically selected. 220-300 VDC
Frequency	47-63 Hz
Inrush current	38 A max, cold start @ 25°C
Efficiency	75% typical at full load
EMI filter	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	110 W convection (75 W with cover) 150 W with 30 CFM forced air (130 W with cover)
Adjustment range	$\pm 5\%$ minimum
Hold-up time	20 ms @ 110 W load, 115/230 VAC nominal line
Overload protection	Short circuit protection. Case overload protected @ 110% to 145% above peak rating
Overvoltage protection	5 V output: 5.7 to 6.7 VDC. Other outputs 10% to 25% above nominal output

#### Logic Control

Power Failure	TTL Logic signal goes high 50-150 msec after 5 V output. It goes low at least 3 ms before loss of regulation.
Remote inhibit	Requires an external TTL high signal to inhibit outputs.
Remote sense	Compensates for 0.5 V lead drop minimum, will operate without remote sense connected. Reverse connection protected.

### Safety

<b>VDE</b>	0805/EN60950 (IEC950)	11774-3336-1260 (LC#88585)
<b>UL</b>	UL1950	EI32002
<b>CSA</b>	CSA 22.2-234 Level 3	LR53982
<b>NEMKO</b>	EN 60950/EMKO-TUE (74-sec) 203	P95102999
<b>BABT</b>	EN60950/BS7002	607019
<b>CB</b>	Certificate and report	2062
<b>CE</b>	Mark (LVD)	

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Facsimile: 44 (1384) 843-355

## ASIA

Units 2111-2116, Level 21  
Tower 1, Metroplaza  
223, Hing Fong Road  
Fwai Fong, New Territories  
Hong Kong  
Telephone: 852-2437-9662  
Facsimile: 852-2402-4426



## Ordering Information

Model Number	Output Voltage	Minimum Load	Maximum Load with Convection Cooling	Maximum Load with 30 CFM Forced Air	Peak Load <sup>1</sup>	Regulation <sup>2</sup>	Ripple P/P (PARD) <sup>3</sup>
LPS152	5 V	0 A	22 A	30 A	35 A	±2%	50 mV
LPS153	12-(15) V	0 A	9.1 A	12.5 A	14.5 A	±2%	150 mV
LPS155	24-(28) V	0A	4.5 A	6.2 A	7.2 A	±2%	280 mV, max.

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 and load ranges.
- Note: -C suffix added to the model number indicates cover option.

## Pin Assignments

Connector	LPS152	LPS153	LPS155
<b>SK1</b>	PIN 1 INHIBIT -ve PIN 2 INHIBIT +ve PIN 3 VCC PIN 4 No Connection PIN 5 COMMON PIN 6 -SENSE PIN 7 +SENSE PIN 8 C SHARE	PIN 1 INHIBIT -ve PIN 2 INHIBIT +ve PIN 3 VCC PIN 4 No Connection PIN 5 COMMON PIN 6 -SENSE PIN 7 +SENSE PIN 8 C SHARE	PIN 1 INHIBIT -ve PIN 2 INHIBIT +ve PIN 3 VCC PIN 4 No Connection PIN 5 COMMON PIN 6 -SENSE PIN 7 +SENSE PIN 8 C SHARE
<b>SK2</b>	PIN 5 COMMON PIN 6 PIN REMOVED PIN 7 POK	PIN 5 COMMON PIN 6 PIN REMOVED PIN 7 POK	PIN 5 COMMON PIN 6 PIN REMOVED PIN 7 POK
<b>SK3</b>	TB-1 COMMON TB-2 +5 V	TB-1 COMMON TB-2 +12 to +15 V	TB-1 COMMON TB-2 +24 to +28 V
<b>SK4</b>	PIN 1 GROUND PIN 3 LINE PIN 5 NEUTRAL	PIN 1 GROUND PIN 3 LINE PIN 5 NEUTRAL	PIN 1 GROUND PIN 3 LINE PIN 5 NEUTRAL

## Mating Connectors

(SK4) AC Input: Molex 09-50-8051 (USA)  
Molex 09-91-0500 (UK)  
PINS: 08-58-0111

(SK2) Power fail: Molex 09-50-8031 (USA)  
Molex 09-91-0300 (UK)  
PINS: 08-58-0111

(SK1) Remote sense/Remote inhibit:  
Molex 51110-0851 (USA)  
Pins: 50394-8100

Astec Connector Kit #70-841-009, includes all of the above.

## Notes:

1. Specifications subject to change without notice.
2. All dimensions in inches (mm), tolerance is  $\pm 0.2^\circ$ .
3. Specifications are for convection rating at factory settings unless otherwise stated.
4. Remote inhibit requires an external 5V @ 10mA to activate.
5. Mounting (6-32) maximum insertion depth is 0.12".
6. Warranty: 1 year
7. Weight: 1.75 lb. / 0.80 kg

