# 150 Watts LPS150 Series



#### **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: ±.04% per °C

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

### **Electrical Specs**

110-150 Watts

Input Voltage: 85-132 | 170-264 VAC 220-300 VDC

Single

#### Input

**Total Power:** 

*# of Outputs:* 

Input range

Frequency Inrush current Efficiency EMI filter

Safety ground leakage current

#### Output

Maximum power

Adjustment range Hold-up time

Overload protection

Overvoltage protection

#### Logic Control

Power Failure

Remote inhibit

Remote sense

85-132 VAC or 170-264 VAC automatically selected. 220-300 VDC 47-63 Hz 38 A max, cold start @ 25°C 75% typical at full load FCC Class B conducted CISPR 22 Class B conducted EN55022 Class B conducted VDE 0878 PT3 Class B conducted

<0.5 mA @ 50/60 Hz, 264 VAC input

110 W convection (75 W with cover) 150 W with 30 CFM forced air (130 W with cover)

±5% minimum 20 ms @ 110 W load, 115/230 VAC nominal line

Short circuit protection. Case overload protected @ 110% to 145% above peak rating 5 V output: 5.7 to 6.7 VDC. Other

output: 5.7 to 6.7 VDC. Other outputs 10% to 25% above nominal output

TTL Logic signal goes high 50-150 msec after 5 V output. It goes low at least 3 ms before loss of regulation. Requires an external TTL high signal to inhibit outputs.

Compensates for 0.5 V lead drop minimum, will operate without remote sense connected. Reverse connection protected.

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



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ASTEC

## **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
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.

Conn	ector	LPS152	LPS153	LPS155
SK1	PIN 1 PIN 2 PIN 3 PIN 4 PIN 5 PIN 6 PIN 7 PIN 8	INHIBIT -ve INHIBIT +ve VCC No Connection COMMON -SENSE +SENSE C SHARE	INHIBIT -ve INHIBIT +ve VCC No Connection COMMON -SENSE +SENSE C SHARE	INHIBIT -ve INHIBIT +ve VCC No Connection COMMON -SENSE +SENSE C SHARE
SK2				
SIL	PIN 5 PIN 6 PIN 7	Common Pin Removed Pok	Common Pin Removed Pok	Common Pin Removed Pok
SK3	TB-1 TB-2	COMMON +5 V	COMMON +12 to +15 V	COMMON +24 to +28 V
SK4	PIN 1 PIN 3 PIN 5	GROUND LINE NEUTRAL	ground Line Neutral	ground Line Neutral
	ng Connect AC Input:	<b>ors</b> Molex 09-50-8051	(116.4.)	
(384)	AC IIIput.	Molex 09-90-8031 Molex 09-91-0500 PINS: 08-58-0111		
(SK2)	Power fail:	Molex 09-50-8031 Molex 09-91-0300 PINS: 08-58-0111		
(SK1)	Remote ser	nse/Remote inhibit: Molex 51110-0851 Pins: 50394-8100	(USA)	

#### Notes:

- Specifications subject to change without notice.
  All dimensions in inches (mm), tolerance is ±.02".
- Specifications are for convection rating at factory settings unless 3. otherwise stated.
- Remote inhibit requires an external 5V @ 10mA to activate. 4. Mounting (6-32) maximum insertion depth is 0.12".
- 5.
- 6. Warranty: 1 year
  7. Weight: 1.75 lb. / 0.80 kg





