Embedded Power for Business-Critical Continuity

> Rev. 08.17.07 LPS150 Series 1 of 3

LPS150 Series 150 Watts

Total Power: 100 - 150 Watts Input Voltage: 85-132 / 170-264 Vac 220 - 300 Vdc # of Outputs: Single





Electrical Specifications

Input	
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mput	
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	± 5% minimum on the main outputs
Hold-up time	20 ms @ 110 W load, 115/230 Vac nominal lline
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





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)

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
	P95102999 (74-sec) 203
BABT	EN60950/BS7002
	607019
СВ	Certificate and report
	2062
CE	Mark (LVD)

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Environmental Specifications

0° to 50 °C ambient; derate each output at 2.5% per degree from 50° to 70 °C
40 °C to +85 °C
± 0.4% per °C
Designed to meet IEC 801, -2, -3, -4, -5, -6, Level 3
Operating; non-condensing 5% to 95%
Three orthogonal axes, sweep at 1 oct/min, 5 min. dwell at four major resonances 0.75G beak 5Hz to 500Hz, operational
> 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
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	0 A	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.

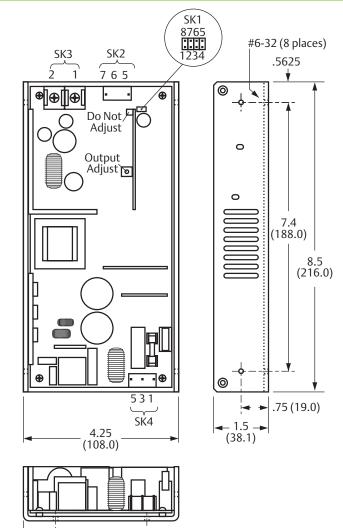
2. At 25 °C including initial tolerance, line voltage, load currents and output voltages adjusted to factory settings.

3. Peak-to-peak with 20 MHz bandwidth and 10 μ F in parallel with a 0.1 μ F capacitor at rated line voltage and load ranges.

PIN 5 COMMON COMMON COMMON PIN 6 -SENSE -SENSE -SENSE PIN 7 +SENSE +SENSE +SENSE PIN 8 C SHARE C SHARE C SHARE SK2 PIN 5 COMMON COMMON COMMON PIN 6 PIN REMOVED PIN REMOVED PIN REMOVED PIN 7 POK POK POK SK3 TB-1 COMMON COMMON COMMON TB-2 +5 V +5 V +5 V 5K4 SK4 PIN 1 GROUND GROUND GROUND	Connector		LPS152	LPS153	LPS155
PIN 3 VCC VCC VCC PIN 4 No Connection No Connection No Connection PIN 5 COMMON COMMON COMMON PIN 6 -SENSE -SENSE -SENSE PIN 7 +SENSE +SENSE +SENSE PIN 8 C SHARE C SHARE C SHARE SK2 PIN 5 COMMON COMMON PIN 6 PIN REMOVED PIN REMOVED PIN REMOVED PIN 7 POK POK POK SK3 TB-1 COMMON COMMON COMMON TB-2 +5 V +5 V +5 V SK4 PIN 1 GROUND GROUND GROUND	SK1	PIN 1	INHIBIT -ve	INHIBIT -ve	INHIBIT -ve
PIN 4 No Connection No Connection No Connection PIN 5 COMMON COMMON COMMON PIN 6 -SENSE -SENSE -SENSE PIN 7 +SENSE +SENSE +SENSE PIN 8 C SHARE C SHARE C SHARE SK2 PIN 5 COMMON COMMON PIN 6 PIN REMOVED PIN REMOVED PIN REMOVED PIN 7 POK POK POK SK3 TB-1 COMMON COMMON COMMON TB-2 +5 V +5 V +5 V 5K4 SK4 PIN 1 GROUND GROUND GROUND		PIN 2	INHIBIT +ve	INHIBIT +ve	INHIBIT +ve
PIN 5 COMMON COMMON COMMON PIN 6 -SENSE -SENSE -SENSE PIN 7 +SENSE +SENSE +SENSE PIN 8 C SHARE C SHARE C SHARE SK2 PIN 5 COMMON COMMON COMMON PIN 6 PIN REMOVED PIN REMOVED PIN REMOVED PIN 7 POK POK POK SK3 TB-1 COMMON COMMON TB-2 +5 V +5 V +5 V SK4 PIN 1 GROUND GROUND		PIN 3	VCC	VCC	VCC
PIN 6 -SENSE -SENSE -SENSE PIN 7 +SENSE +SENSE +SENSE PIN 8 C SHARE C SHARE C SHARE SK2 PIN 5 COMMON COMMON COMMON PIN 6 PIN REMOVED PIN REMOVED PIN REMOVED PIN 7 POK POK POK SK3 TB-1 COMMON COMMON COMMON TB-2 +5 V +5 V +5 V SK4 PIN 1 GROUND GROUND GROUND		PIN 4	No Connection	No Connection	No Connection
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PIN 8 C SHARE C SHARE C SHARE SK2 PIN 5 COMMON COMMON COMMON PIN 6 PIN REMOVED PIN REMOVED PIN REMOVED PIN 7 POK POK POK SK3 TB-1 COMMON COMMON COMMON TB-2 +5 V +5 V +5 V SK4 PIN 1 GROUND GROUND GROUND		PIN 6	-SENSE	-SENSE	-SENSE
SK2 PIN 5 COMMON COMMON COMMON PIN 6 PIN REMOVED PIN REMOVED PIN REMOVED PIN REMOVED PIN 7 POK POK POK SK3 TB-1 COMMON COMMON COMMON TB-2 +5 V +5 V +5 V SK4 PIN 1 GROUND GROUND GROUND		PIN 7	+SENSE	+SENSE	+SENSE
PIN 6 PIN REMOVED PIN REMOVED PIN REMOVED PIN REMOVED PIN 7 POK POK POK POK SK3 TB-1 COMMON COMMON COMMON TB-2 +5 V +5 V +5 V SK4 PIN 1 GROUND GROUND GROUND		PIN 8	C SHARE	C SHARE	C SHARE
PIN 7 POK POK POK SK3 TB-1 COMMON COMMON COMMON TB-2 +5 V +5 V +5 V SK4 PIN 1 GROUND GROUND GROUND	SK2	PIN 5	COMMON	COMMON	COMMON
SK3 TB-1 COMMON COMMON COMMON TB-2 +5 V +5 V +5 V SK4 PIN 1 GROUND GROUND GROUND		PIN 6	PIN REMOVED	PIN REMOVED	PIN REMOVED
TB-2 +5 V +5 V SK4 PIN 1 GROUND GROUND		PIN 7	POK	POK	POK
SK4 PIN 1 GROUND GROUND GROUND	SK3	TB-1	COMMON	COMMON	COMMON
		TB-2	+5 V	+5 V	+5 V
	SK4	PIN 1	GROUND	GROUND	GROUND
PIN 3 LINE LINE LINE		PIN 3	LINE	LINE	LINE
PIN 5 NEUTRAL NEUTRAL NEUTRAL		PIN 5	NEUTRAL	NEUTRAL	NEUTRAL

Mating Con	nectors			
AC input (SK4):	Molex 09-50-8051 (USA) Molex 09-91-0500 (UK) PINS: 08-58-0111			
Power fail (SK2):	Molex 09-50-8031 (USA) Molex 09-91-0300 (UK) PINS: 08-58-0111			
Remote sense/ Remote inhibit (SK1):	Molex 51110-0851 (USA) PINS: 50394-8100			
	or Kit #70-841-009, includes all of the above			
1. Specificatio	ons subject to change without notice.			
2. All dimensi	ons in inches (mm), tolerance is ±0.02" (±0.5mm)			
 Specification unless other 	Specifications are for convection rating at factory settings unless otherwise stated			
4. Remote inh	Remote inhibit requires an external 5V @ 10mA to activate.			
5. Mounting (Mounting (6-32) maximum insertion depth is 0.12".			
6. Warranty:	2 year			
7. Weight: 1.7	75 lbs/0.80 kg			

Mechanical Drawing



2.5

(63.5)

.875

(22.25)

Americas

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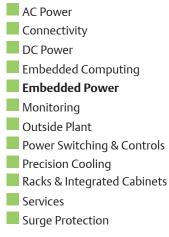
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