

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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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: ±.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 ±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

VDE 0805/EN60950 (IEC950) 11774-3336-1260 (LC#88585)

 UL
 UL1950
 El32002

 CSA
 CSA 22.2-234 Level 3
 LR53982

 NEMKO
 EN 60950/EMKO-TUE
 P95102999

(74-sec) 203

BABT EN60950/BS7002 607019 **CB** Certificate and report 2062

CE Mark (LVD)



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Ordering Information

Model	Output	Minimum	Maximum Load with	Maximum Load with	Peak	Regulation2	Ripple
Number	Voltage	Load	Convection Cooling	30 CFM Forced Air	Load1		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 μF capacitor at rated line and load ranges. Note: -C suffix added to the model number indicates cover option.

Pin Assignments

Connector		LPS152	LPS153	LPS155
SK1	PIN 1	INHIBIT -ve	INHIBIT -ve	INHIBIT -ve
	PIN 2	INHIBIT +ve	INHIBIT +ve	INHIBIT +ve
	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	COMMON
	PIN 6	PIN REMOVED	PIN REMOVED	PIN REMOVED
	PIN 7	POK	POK	POK
SK3	TB-1	COMMON	COMMON	COMMON
	TB-2	+5 V	+12 to +15 V	+24 to +28 V
SK4	PIN 1	GROUND	GROUND	GROUND
	PIN 3	LINE	LINE	LINE
	PIN 5	NEUTRAL	NEUTRAL	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 al of the above.

- 1. Specifications subject to change without notice.
- All dimensions in inches (mm), tolerance is ±.02".
- Specifications are for convection rating at factory settings unless otherwise stated.
- Remote inhibit requires an external 5V @ 10mA to activate.
- Mounting (6-32) maximum insertion depth is 0.12".
- 6. Warranty: 1 year7. Weight: 1.75 lb. / 0.80 kg



