

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!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China







175 Watts LPS170 Series

Total Power: 110-175 Watts Input Voltage: 85-264 VAC

120-300 VDC

of Outputs: Single



Special Features

- Active power factor correction
- IEC EN61000-3-2 compliance
- Wide Range Adjustable output Remote sense on main output
- Single wire current sharing
- Power fail and remote inhibit
- Built-in EMI filter
- Low output ripple
- Overvoltage protection
- Overload protection
- Thermal overload protection
- DC power good
- 5 V standby output
- 12 V Aux output
- Optional cover (-C suffix)

Environmental

Operating temperature: 0° to 50°C ambientderate each output at 2.5% per degree from 50° to 70°C

Electromagnetic susceptibility: designed to meet IEC EN61000-4, -2, -3, -4, -5, -6, -8, -11, 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 85-264 VAC, 120-300 VDC

Frequency 47-63 Hz

Inrush current38 A max, cold start @ 25°CEfficiency75% typical at full loadEMI filterMeets FCC Class B conducted

CISPR 22 Class B conducted EN55022 Class B conducted VDE 0878 PT3 Class B conducted

Power factor 0.99 typical

Safety ground

leakage current 1.0 mA @ 50/60 Hz, 264 VAC input

Output

Maximum power 110 W convection (75 W with cover)

175 W with 30 CFM forced air

(130 W with cover)

Adjustment range 2:1 wide ratio minimum

Hold-up time 20 ms @175 W load at nominal line
Overload protection Short circuit protection on all outputs.

Case overload protected @ 110-145%

above peak rating

Overvoltage protection 10% to 40% above nominal output

 Standby output
 5 V @ 2A regulated ±5%

 Aux output
 12 V @ 1 A -5 %, +10%

Logic Control

Power failure TTL logic signal goes high 100 - 500

msec after V1 output; It goes low at least 4 msec before loss of regulation Requires contact closure to inhibit

Remote inhibit Requires contact closure

outputs

Remote sense Compensates for 0.5 V lead drop min.

Will operate without remote sense connected. Reverse connection

protected.

DC Ok TTL logic signal goes high after main

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output is in regulation. It goes low when there is a loss of regulation

Safety

VDE 0805/EN60950 (IEC950)

UL UL1950

CB Certificate and report CSA CSA 22.2-234 Level 3

CE Mark (LVD)

NEMKO EN 60950/EMKO-TUE



AMERICAS

5810 Van Allen Way Carlsbad, CA 92008 Telephone: 760-930-4600 Facsimile: 760-930-0698

EUROPE

Astec House, Waterfront Business Park Merry Hill, Dudley West Midlands, DY5 1LX, UK Telephone: 44 (1384) 842-211 Facsimile: 44 (1384) 843-355

ASIA

Units 2111-2116, Level 21 Tower1, Metroplaza 10wer I , Metropiaza 223, Hing Fong Road Fwai Fong, New Territories Hong Kong Telephone: 852-2437-9662 Facsimile: 852-2402-4426



Ordering Information

Model	Output	Minimum	Maximum Load with	Maximum Load with	Peak	Regulation2	Ripple
Number	Voltage	Load	Convection Cooling	30 CFM Forced Air	Load		P/P(PARD)3
LPS172	5 V (2.5-6V)	0 A	22 A	35 A	38 A	±2%	50 mV
LPS173	12 V (6-12 V)	0 A	9.1 A	15 A	16.5 A	±2%	120 mV
LPS174	15 V (12-24 V)	0 A	7.3 A	12 A	13.2 A	±2%	<1%
LPS175	24 V (24-54 V)	0 A	4.5 A	7.5 A	8.2 A	±2%	<1%

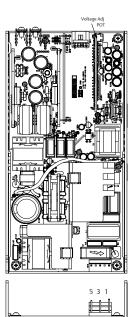
- 1. Peak current lasting <30 seconds with a maximum 10% duty cycle.
- $2. \, At \, 25^{\circ}C \, including \, initial \, tolerance, line \, voltage, \, load \, currents \, and \, output \, voltages \, adjusted \, to \, factory \, settings.$
- 3. Peak-to-peak with 20 MHz bandwidth and 10 μF in parallel with a 0.1 μF capacitor at rated line voltage and load ranges.
- 4. Remote inhibit resets OVP latch

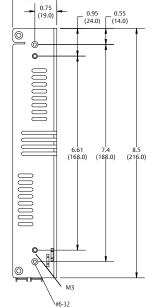
Note: -C suffix added to the model number indicates cover option.

Ordering Information						
Connector	LPS17x					
SK1	PIN 1 PIN 2 PIN 3 PIN 4 PIN 5 PIN 6 PIN 7 PIN 8 PIN 9 PIN 10	+12V 5V Standby Common V1 SWP Common +V1 sense Sense common Remote inhibit DC power good POK				
SK3	TB-1 TB-2	COMMON Main output				
SK4	PIN 1 PIN 3 PIN 5	GROUND LINE NEUTRAL				
Mating Connectors (SK4) AC Input:		Molex 09-50-8051 (USA) Molex 09-91-0500 (UK) PINS: 08-58-0111				
(SK3) DC Output:		Molex 19141-0058				
(SK1) Control Signals:		Molex 90142-0010 (USA) PINS: 90119-2110 or Amp: 87977-3 PINS: 87309-8				
Astec connector kit #70-841-016						

- 1. Specifications subject to change without notice.
- 2. All dimensions in inches (mm), tolerance is ± 0.02 ".
- 3. Specifications are for convection rating at factory settings unless otherwise stated.
- 4. Mounting screw maximum insertion depth is 0.12".
- 5. Warranty: 1 year
- 6. Weight: 1.8 lb / 0.85 kg







1.50 (38.1)

