imall

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



145 Watts LPQ142 Series

Total Power: 110-145 Watts *Input Voltage:* 85-264 VAC 120-300 VDC *# of Outputs:* Quad

Special Features

- Active power factor correction
- IEC EN61000-3-2 complianceAdjustable outputs on 1, 3 & 4
- 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
- Adjustable floating 4th output
- Optional cover (-C suffix)
- Optional fan cover (-CF 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 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

Input range Frequency Inrush current Efficiency EMI filter

Power factor Safet y ground leakage current

Output Maximum power

Adjustment range

Hold-up time Overload protection

Overvoltage protection

Logic Control

AC Power failure

Remote inhibit

Remote sense

DCOk

85-264 VAC, 120-300 VDC 47-63 Hz 38 A max, cold start @25°C 75% typical at full load Meets FCC Class B conducted CISPR 22 Class B conducted EN55022 Class B conducted VDE 0878 PT3 Class B conducted 0.99 typical

1.0 mA @50/60 Hz, 264 VAC input

80 W convection (60 W with cover-C) 145 W with 30 CFM forced air (100 W with cover-C) 3.3 - 5.5V on main; -12 - 15V on 3rd output 3.3 - 25 V on 4th output 20 ms@145 W load at nominal line Short circuit protection on all outputs. Case overload protected @110-145% above peak rating Tracks outputs 1, 3 & 4; 10 to 35%

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 outputs Compensates for 0.5 V lead drop min. Will operate without remote sense connected. Reverse connection protected. TTL logic signal goes high after main

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

	Safety	
VDE UL CB CSA CE NEMKO	60950 60950 Certificate and report 60950 Mark (LVD) EN 60950/EMKO-TUE	



110

AM ERICAS 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 Units 2111-2116, Level 21 Tower1, Metroplaza 223, Hing Fong Poad Fwai Fong, New Territories Hong Kong Telephone: 852-2437-9662 Facsimile: 852-2402-4426

ASIA



Model	Output	Minimum	Maximum Load with	Maximum Load with	Peak	<i>R</i> egulation ²	Ripple
Number	Voltage	Load	Convection Cooling	30 CFM Forced Air	Load		P/P(PARD)³
LPQ142 5 V (3.3 - 5.8	5 V (3.3 - 5.5 V)	0 A	12 A	25 A	27 A	±2%	50 mV
12 V	12 V	0 A	5 A	6 A	9 A	±3%	120 mV
	-12 V (-12 -15 V)	0 A	1 A	1.5 A	2 A	±3%	<1%
	±3.3-25 V	0.5 A	1.5 A	4.5 A	5 A	±3%	<50mV or 1%

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 Fin parallel with a 0.1 μ F capacitor at rated line voltage and load ranges.

4. 4th output adjustable 3.3-25 V factory set at 5 V.

5. * Minimum loads are required when output set below 5 Volts

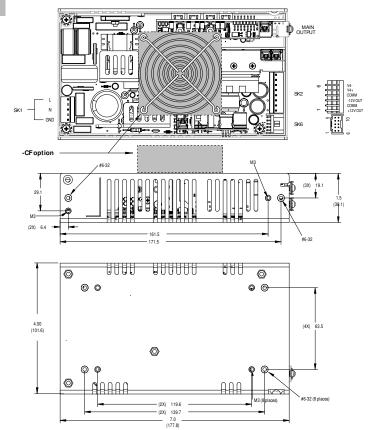
6. Remote inhibit resets OVP latch

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

Pin Assignments

Connector	LPQ142					
SK1	PIN 1 PIN 3 PIN 5	GROUND NEUTRAL LINE				
SK2	PIN 1 PIN 2 PIN 3 PIN 4 PIN 5 PIN 6	+12 V COMMON -12 V COMMON +5 V to +25 V (Float) COMMON (Float)				
SK4	TB-1 TB-2	COMMON +5 V				
SK6	PIN 1 PIN 2 PIN 3 PIN 4 PIN 5 PIN 6 PIN 7 PIN 8 PIN 9 PIN 10	N/C DCOK N/C V1 SWP Common +V1 sense Sense common + inhibit - inhibit Power fail				
<i>Mating Connectors</i> (SK1) AC Input:		Molex 09-50-8051 (USA) Molex 09-91-0500 (UK) PINS: 08-58-0111				
(SK2) Aux DC Output:		Molex 09-50-8061 (USA) Molex 09-91-0600 (UK) PINS: 08-58-0111				
(SK6) Control Signals:		Molex 90142-0010 (USA) PINS: 90119-2110 or Amp: 87977-3 PINS: 87309-8				
(SK4) Main output:		Molex BB-124-08				
Astec connector kit #70-841-017 includes all of the above						

Astec connector kit #70-841-017, includes al of the above.



- Notes:
- 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: 1.63 lb / 0.74 kg

