

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









LPQ350 Series

350 Watts

Data Sheet

Total Power: 350 Watts Input Voltage: 85-264 Vac 120 - 300 Vdc

of Outputs: Quad

SPECIAL FEATURES

- Active power factor correction
- IEC EN61000-3-2 compliance
- Remote sense on 1st and 4th output
- Power fail and remote inhibit
- Single wire current sharing
- Built-in EMI filter
- Adjustable floating 4th output
- 2 Supervisory output 5 V and 12 V
- Overvoltage protection
- Overload protection
- Thermal overload protection
- DC power good
- 135 khz switching frequency
- Cover -C
- Optional with fan cover -CF
- Optional end-mounted fan -CEF

SAFETY

■ VDE 60950 21310-3336-0001

UL 60950

 CSA CSA 22.2-234 Level 5 LR109492C

■ NEMKO EN 60950/EMKO-TUE

P97102061 (74-sec) 203

BABT EN60950/BS7002 607019

CB Certificate and report 4048, 4049

CE Mark (LVD)





Electrical Specifications			
Input			
Input range	85-264 VAC; 120-300 VDC		
Frequency	47-440 Hz		
Inrush current	38 A max, cold start @ 25 °C		
Efficiency	75% typical at full load		
EMI filter	FCC Class B conducted and radiated CISPR 22 Class B conducted and radiated EN55022 Class B conducted and radiated VDE 0878 PT3 Class B conducted and radiated		
Power factor	0.99 typical		
Safety ground leakage current	0.5 mA @ 50/60 Hz, 264 VAC input		
Output			
Maximum power	With cover: 350 W with 30 CFM forced air, (-C) (-CF) (-CEF)		
Adjustment range	± 5% min. on main: 3.3-24 V on output 4		
Supervisory output	5 V @ 500 mA regulated, 12 @ 150 mA x2		
Hold-up time	20 ms @ 350 W load, 115 VAC nominal line		
Overload protection	Short circuit protection on all outputs. Case overload protected @ 110-145% above peak rating		
Overvoltage protection	5 V output: 5.7 - 6.7 VDC		



Logic Control		
Power fail	TTL logic signal goes high 50 - 150 msec after 5 V output. It goes low at least 4 msec before loss of regulation	
Remote on/off	Requires an external contact (N.O or N.C) to inhibit outputs	
DC-OK	TTL logic goes high 50 - 150 msec after 5 V output. It goes low when there is loss of regulation	
Remote sense	Compensates for 0.5 V lead drop min. Will operate without remote sense connected. Reverse connection protected	

Environmental Specifications			
Operating temperature	0° to 50 °C ambient; derate each output at 2.5% per degree from 50° to 70 °C		
Storage temperature	-40 °C to +85 °C		
Temperature coefficient	± 0.4% per °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 0.7 G peak 5Hz to 500Hz, operational		
MTBF demonstrated	> 550,000 hours at full load and 25 °C ambient conditions		

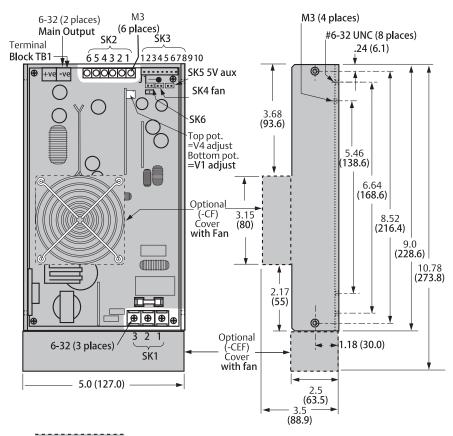
Ordering Information						
Model Number	Output Voltage	Minlmun Load	Maximum Load	Peak Load ¹	Requiation ²	Ripple P/P(PARD) ³
LPQ352-C	+5 V	5 A	50 A	60 A	±2%	50 mV
	+12 V	0 A	12 A	14 A	±3%	120 mV
	-12 V	0 A	6 A	8 A	±3%	120 mV
	3.3 - 24 V	*1 A	6 A	8 A	±3%	240 mV ₁ max.
LPQ353-C	+5 V	5 A	50 A	60 A	±2%	50 mV
	+15 V	0 A	12 A	14 A	±3%	150 mV
	-15 V	0 A	6 A	8 A	±3%	150 mV
	3.3 - 24 V	*1 A	6 A	8 A	±3%	240 mV ₁ 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.
- 4. 4th output 3.3 24 V factory set at 5 V.
- 5. * Minimum load required when the output is set below 5 volts.
- 6. If optional CF or CEF fans are not used, 30CFM forced air cooling needs to be provided and is required through the length of the power supply. Not convection rated.
- 7. Remote inhibit resets OVP latch

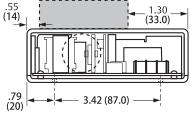
Note: -CF suffix added to the model number indicates cover with fan,

-CEF suffix added to model number indicates end-mounted fan chassis.

Mechanical Drawing



the the th



Notes:

- 1. Specifications subject to change without notice.
- 2. All dimensions in inches (mm), tolerance \pm .02".
- 3. Specifications are at factory settings
- 4. To enable normally closed Remote Inhibit, cut Jumper J1.
- 5. Mounting maximum insertion depth is 0.12".
- 6. Warranty: 2 year
- 7. Weight: 4 lb./1.8kg.

Neutral Line Ground + 12/15V Common
Ground + 12/15V Common
+ 12/15V Common
Common
Common
Common
- 12/15 V
3.3-25 V RET Float
3.3-25 V Float
+ Sense V 4
- Sense V 4
+Sense V 1
-Sense V 1
POK
C.Share
DC-OK
Inhibit (N.O.)
Inhibit (N.C.)
COM
+ Fan 1 (12V@150mA)
- Common
+ 5V aux (5V@100mA)
- Common
+ Fan 2 (12V@150mA)
- Common

Ip Ip Ip

Mating Connectors		
SK3	Molex: 51191-1000 PINS: 50802-9101	
SK4	Molex: 22-01-3027 PINS: 08-50-0114	
SK5	Molex: 22-01-3027 PINS: 08-50-0114	
SK6	Molex: 22-01-3027 PINS: 08-50-0114	
Astec Connector Kit #70-841-011, includes all of the above.		

WORLDWIDE OFFICES

Americas

2900 S.Diablo Way Tempe, AZ 85282 USA +1 888 412 7832

Europe (UK)

Waterfront Business Park Merry Hill, Dudley West Midlands, DY5 1LX United Kingdom +44 (0) 1384 842 211

Asia (HK)

14/F, Lu Plaza 2 Wing Yip Street Kwun Tong, Kowloon Hong Kong +852 2176 3333



www.artesyn.com

For more information: www.artesyn.com/power For support: productsupport.ep@artesyn.com