LPQ250 Series

250 Watts

Total Power: 250 Watts **Input Voltage:** 85-264 Vac 120 - 300 Vdc

of Outputs: Quad



Rev. 07.05.12_157 LPQ250 Series 1 of 3



Special Features

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

Safety

• **VDE** 0805/EN60950 (IEC950)

11774-3336-1262

• **UL** UL1950 El32002

• **CSA** CSA 22.2-234 Level 5

LR53982C

• **NEMKO** EN 60950/EMKO-TUE

P95102999 (74-sec) 203

• **CB** Certificate & report 2186

• **CE** Mark (LVD)

Electrical Specifications

Input

Input range: 85-264 Vac; 120 - 300 Vdc

Frequency: 47-440 Hz

Inrush current: 20 A max, cold start @ 25 °C Efficiency: 75% typical at full load

FCC Class B conducted and radiated

EMI filter: CISPR 22 Class B conducted and radiated

EN55022 Class B conducted and radiated

VDE 0878 PT3 Class B conducted and radiated

Safety ground contract contrac

Output

Maximum power: With cover: 250 W with 30 CFM forced air.

(-C) (-CF) (CEF)

Adjustment range: \pm 5% min. on main: 5-25 V on 4th output Supervisory outputs: 5 V @ 100 mA regulated, 12 V @ 500 mA Hold-up time: 16 ms @ 250 W load, 115 VAC nominal line

uille: 16 ilis @ 250 W load, 115 VAC nominarille

Overload protection: Short circuit protection on all outputs. Case overload protected @

110-145% above peak rating

Overvoltage protection: 5 V output: 5.7 to 6.7 VDC.
Other models 10% to 25% above nominal output





Rev. 07.05.12_157 LPQ250 Series

Logic Control

Power fail: TTL Logic signal goes high 50-150 msec after 5 V output. It goes low at least 4 ms 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 the output. It goes low when there is loss of regulation.

Remote sense: Compensates for 0.5 V lead drop minimum, 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

Designed to meet IEC 801, -2, -3, -4, -5, -6, Level 3

susceptibility:

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 5 Hz to

500 Hz, operational

MTBF demonstrated: > 550,000 hours at full load and 25 °C ambient conditions

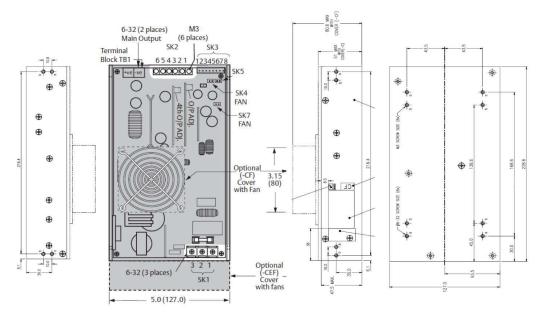
Ordering Information							
Model Number	Output Voltage	Minimum Load	Maximum Load with 30CFM Forced Air	Peak Load ¹	Regulation ²	Ripple P/P (PARD) ³	
LPQ252-C	+5 V	3 A	35 A	40 A	±2%	50 mV	
	+12 V	0 A	10 A	12 A	±3%	120 mV	
	-12 V	0 A	6 A	8 A	±3%	120 mV	
	± 5 - 25 V	0 A	6 A	8 A	±3%	240 mV max.	
LPQ253-C	+5 V	3 A	35 A	40 A	±2%	50 mV	
	+15 V	0 A	10 A	12 A	±3%	150 mV	
	-15 V	0 A	6 A	8 A	±3%	150 mV	
	± 5 - 25 V	0 A	6 A	8 A	±3%	240 mV max.	

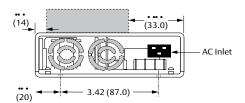
- 1. Peak current lasting < 30 seconds with a maximum 10% duty cycle.
- 2. At 25 °C including initial tolerance, line voltage, load currents and output voltages adjusted to factory settings.
- 3. Peak-to-peak with 20 MHz bandwidth and 10 μ F in parallel with a 0.1 μ F capacitor at rated line voltage and load ranges.
- 4. 4th output 5 25 V factory set at 5 V.
- 5. Minimum Load is required.
- 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.

Note: -CF suffix added to the model number indicates cover with top fan. -CEF suffix added to the model number indicates cover with dual end mounted fan cover and AC inlet.

Rev. 07.05.12_157 LPQ250 Series 3 of 3

Mechanical Drawing





Pin Assignments						
Connector						
SK1	PIN 1	Neutral				
	PIN 2	Line				
	PIN 3	Ground				
SK2	PIN 1	+ 12 / 15V				
	PIN 2	Common				
	PIN 3	Common				
	PIN 4	- 12 / 15 V				
	PIN 5	5-25 V RET Float				
	PIN 6	5-25 V Float				
SK3	PIN 1	+ Remote sense				
	Pin 2	- Remote sense				
	PIN 3	Remote inhibit (N.O.)				
	PIN 4	Remote inhibit (N.C.)				
	PIN 5	Common				
	PIN 6	Current sharing				
	PIN 7	Power Fail				
	PIN 8	DC Power Good				
SK4	PIN 1	+ Fan's power source (12 V @ 500 mA)				
	PIN 2	- Fan's power source (12 V @ 500 mA)				
SK5	PIN 1	+ Supervisory output supply (5 V @ 100 mA)				
	PIN 2	- Supervisory output supply (5 V @ 100 mA)				
SK7	PIN 1	+ Fan's power source (12 V @ 500 mA)				
	PIN 2	- Fan's power source (12 V @ 500 mA)				

M	Vlating Connectors						
SK:	Molex 22-01-1084 PINS:08-70-0057						
SK	4 Molex 22-01-3027 PINS: 08-50-0114						
SK!	5 Molex 22-01-3027 PINS: 08-50-0114						
SK	7 Molex 22-01-3027 PINS: 08-50-0114						
Em	merson Network Power Connector Kit #70-841-005, includes all of the above						
1.	Specifications subject to change without notice.						
2.	ll dimensions in inches (mm), tolerance is ± 0.02" (± 0.5mm)						
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 years						
7.	Weight: 3.1 lb / 1.41 kg						

Americas

5810 Van Allen Way Carlsbad, CA 92008 USA

Telephone: +1 760 930 4600 Facsimile: +1 760 930 0698

Europe (UK)

Waterfront Business Park Merry Hill, Dudley West Midlands, DY5 1LX United Kingdom

Telephone: +44 (0) 1384 842 211 Facsimile: +44 (0) 1384 843 355

Asia (HK)

14/F, Lu Plaza 2 Wing Yip Street Kwun Tong, Kowloon Hong Kong

Telephone: +852 2176 3333 Facsimile: +852 2176 3888

For global contact, visit:

www.Emerson.com/EmbeddedPower techsupport.embeddedpower @emerson.com

While every precaution has been taken to ensure accuracy and completeness in this literature, Emerson Network Power assumes no responsibility, and disclaims all liability for damages resulting from use of this information or for any errors or omissions.

Emerson Network Power.

The global leader in enabling business-critical continuity.

AC Power

Connectivity

DC Power

Embedded Computing

Embedded Power

Monitoring

Outside Plant

Power Switching & Controls

Precision Cooling

Racks & Integrated Cabinets

Services

Surge Protection

EmersonNetworkPower.com

Emerson and the Emerson Network Power logo are trademarks of Emerson Electric Co. ©2012 Emerson Electric Co. All rights reserved

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Switching Power Supplies category:

Click to view products by Artesyn Embedded Technologies manufacturer:

Other Similar products are found below:

70841011 73-551-0005 73-551-0048 PS3E-B12F PS3E-E12F AAD600S-4-OP R22095 KD0204 9021 LDIN100150 LPM000-BBAR-01 LPX17S-C EVS57-10R6/R FP80 FRV7000G 22929 PS3E-F12F CQM1IA121 40370121900 VI-PU22-EXX 40370121910 LDIN5075 LPM615-CHAS LPX140-C 09-160CFG 70841025 VPX3000-CBL-DC VI-LUL-IU LPM000-BBAR-05 LPM000-BBAR-08 LPM124-OUTA1-48 LPM000-BBAR-07 LPM109-OUTA1-10 LPM616-CHAS 08-30466-1055G 08-30466-2175G 08-30466-2125G DMB-EWG TVQF-1219-18S 6504-226-2101 CQM1IPS01 SP-300-5 CQM1-IPS02 VI-MUL-ES 22829 08-30466-0065G VI-RU031-EWWX 08-30466-0028G EP3000AC48INZ VP-C2104853