

LPQ170 Series

175 Watts

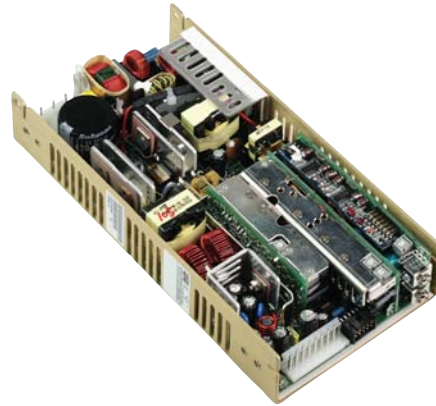
Total Power: 110 - 175 Watts
Input Voltage: 85-264 Vac
120-300 Vdc
of Outputs: Quad

Special Features

- Active power factor correction
- IEC EN61000-3-2 compliance
- Adjustable 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
- DC power good
- 5 V standby output
- Adjustable floating 4th output
- Optional cover (-C suffix)

Safety

VDE 0805/EN60950
(IEC950)
UL UL60950
CB Certificate and report
CSA CSA 22.2-234 Level 3
CE Mark (LVD)
NEMKO EN 60950/EMKO-TUE



Rev. 07.01.08
LPQ170 Series
1 of 4

Electrical Specifications

Input

Input range: 85-264 VAC; 120-300 VDC
Frequency: 47-67 Hz
Inrush current: 38 A max, cold start @ 25°C
Efficiency: 75% typical at full load
EMI filter: Meets 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)
85 W convection - LPQ173
175 W with 30 CFM forced air
(130 W with cover - LPQ172)
Adjustment range: 3.3 - 5.5V on main; -12 - 15V on 3rd output
3.3 - 25 V on 4th output - LPQ172
3.3 - 5.5 V on 4th output - LPQ173
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: Tracks outputs 1, 3 & 4; 15 to 35%
Standby output: 5 V @ 200 mA regulated $\pm 5\%$



Logic Control

AC power failure	TTL logic signal goes high 100 - 500 msec after V1 output; It goes low at least 4 msec before loss of regulation
Remote inhibit	Requires contact closure to inhibit 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 output is in regulation. It goes low when there is a loss of regulation.

Environmental Specifications

Operating temperature:	0° to 50 °C ambient. Derate each output 2.5% per degree from 50° to 70 °C (except for -C version).
Storage temperature:	-40°C to +85°C
Temperature coefficient:	±0.4% per °C
Electromagnetic susceptibility:	Designed to meet IE61000-4, -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 0.75G peak 5Hz to 500Hz, 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 Convection Cooling	Maximum Load with 30CFM forced Air	Peak Load ¹	Regulation ²	Ripple P/P (PARD) ³
LPQ172	5 V (3.3 - 5.5 V)	0 A	15 A	30 A	32 A	±2%	50 mV
	12 V	0 A	6 A	8 A	10 A	±3%	120 mV
	-12 V (-12 -15 V)	0 A	1.5 A	3 A	3.5 A	±3%	<1%
	±3.3-25 V	0.5 A *	2 A	5 A	5.5 A	±3%	<50mV or 1%
LPQ173	5 V (3.3 - 5.5 V)	0 A	10 A	24 A	26 A	±2%	50 mV
	12 V	0 A	6 A	8 A	10 A	±3%	120 mV
	-12V (-12 -15 V)	0 A	.2 A	3 A	3.5 A	±3%	<1%
	5 V (3.3 - 5.5 V)	0 A	10 A	24 A	26 A	±2%	50 mV

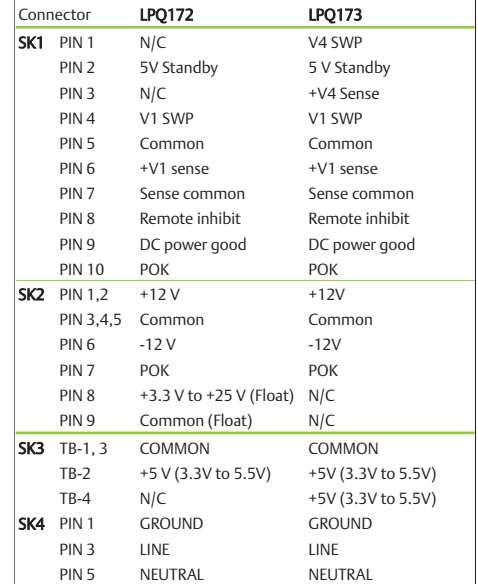
1. Peak current lasting <30 seconds with a maximum 10% duty cycle.
2. At 25°C including initial tolerance, line voltage, load currents and output voltages adjusted to factory settings.
3. Peak-to-peak with 20 MHz bandwidth and 10 µF in parallel with a 0.1 µF capacitor at rated line voltage and load ranges.
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
7. LPQ173-C has no convection rating.

Note: -C suffix added to the model number indicates cover option and is limited to 50 °C operation.

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: 2 year
6. Weight: 2 lb / 0.91 kg

Pin Assignments



(SK4) AC Input: Molex 09-50-8051 (USA)
Molex 09-91-0500 (UK)
PINS: 08-58-0111

(SK3) Main output: Molex series 19141-0058/0063

(SK2) Aux DC Output/Power fail:
Molex 09-50-8091 (USA)
Molex 09-91-0900 (UK)
PINS: 08-58-0111

(SK1) Control Signals:
Molex 90142-0010 (USA)
PINS: 90119-2110 or
Amp: 87977-3
PINS: 87309-8

Astec connector kit #70-841-015, includes all of above

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.powerconversion.com
techsupport.embeddedpower@emerson.com

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Website :

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Contact Us :

➤ Address :

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd
Minhang District, Shanghai , China

➤ Sales :

Direct +86 (21) 6401-6692

Email amall@ameya360.com

QQ 800077892

Skype ameyasales1 ameyasales2

➤ Customer Service :

Email service@ameya360.com

➤ Partnership :

Tel +86 (21) 64016692-8333

Email mkt@ameya360.com