175 Watts LPO172 Series



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
- ٠ Thermal overload protection
- ٠ DC power good
- 5 V standby output
- Adjustable floating 4th output
- Optional cover (-C suffix) •

Environmental

Operating temperature: 0° to 50°C ambient

derate each output at 2.5% per degree from

50° to 70°C (except for -C version)

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

Asia (HK): 852-2437-9662

Total Power: 110-175 Watts Input Voltage: 85-264 VAC 120-300 VDC *# of Outputs:* Quad

Electrical Specs

Input Input range Frequency Inrush current Efficiency EMI filter

Power factor Safety ground leakage current

Output

Maximum power

Adjustment range

Hold-up time Overload protection

Overvoltage protection Standby output

Logic Control

AC Power failure

Remote inhibit

Remote sense

DC Ok

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

110 W convection (75 W with cover) 175 W with 30 CFM forced air (130 W with cover) 3.3 - 5.5V on main; -12 - 15V on 3rd output 3.3 - 25 V on 4th output 20 ms @175 W load at nominal line Short circuit protection on all outputs. Case overload protected @ 110-145% above peak rating Tracks outputs 1, 3 & 4; 15 to 35% 5 V @ 200 mA regulated ±5%

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	0805/EN60950 (IEC950) UL1950 Certificate and report CSA 22.2-234 Level 3 Mark (LVD) 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 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
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%

Peak current lasting <30 seconds with a maximum 10% duty cycle.
At 25°C including initial tolerance, line voltage, load currents and output voltages adjusted to factory settings.
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

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

	Pin	Assignments	
Connector	LPQ172		
SK1	PIN 1 PIN 2 PIN 3 PIN 4 PIN 5 PIN 6 PIN 7 PIN 8 PIN 9 PIN 10	N/C 5V Standby N/C V1 SWP Common +V1 sense Sense common Remote inhibit DC power good POK	
SK2	PIN 1,2 PIN 3,4,5 PIN 6 PIN 7 PIN 8 PIN 9	+12 V Common -12 V POK +3.3 V to +25 V (Float) Common (Float)	
SK3	TB-1 TB-2	COMMON +5 V (3.3V to 5.5V)	
SK4	PIN 1 PIN 3 PIN 5	GROUND LINE NEUTRAL	L
Mating Col	nnectors		0.88 _ (222) _ (27.2)
(SK4) AC Inj	put: N N P	Aolex 09-50-8051 (USA) Aolex 09-91-0500 (UK) INS: 08-58-0111	
(SK3) Main	output: N	Nolex BB-124-08	- 2.11 (63.5) (53.5)
(SK2) Aux DC Output/Power fail: Molex 09-50-8091 (USA) Molex 09-91-0900 (UK) PINS: 08-58-0111		wer fail: Aolex 09-50-8091 (USA) Aolex 09-91-0900 (UK) INS: 08-58-0111	Ф Ф ПАЛАЛА М3(8 PLACES) M3(8 PLACES)
(SK1) Contr	rol Signals: N P A P	Nolex 90142-0010 (USA) INS: 90119-2110 or Imp: 87977-3 INS: 87309-8	<i>Notes:</i> 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.

otherwise stated.

- 4. Mounting screw maximum insertion depth is 0.12".
- 5. Warranty: 1 year 6. Weight: 2 lb / 0.91 kg



Astec connector kit #70-841-015, includes al of the above.