LPS170 Series 175 Watts

Total Power: 100 - 175 Watts **Input Voltage:** 85-264 VAC 120-300 VDC

of Outputs: Single



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Special Features

- Active power factor correction
- IEC EN61000-3-2 compliance
- Wide Range Adjustable output 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
- 12 V Aux output
- Optional cover (-C suffix)

Safety

• **VDE** 0805/EN60950 (IEC950)

• **UL** UL1950

CB Certificate and reportCSA CSA 22.2-234 Level 3

• **CE** Mark (LVD)

• NEMKO EN 60950/EMKO-TUE

Electrical Specifications

Input

Input range: 85-264 VAC; 120-300 VDC

Frequency: 47-63 Hz

Inrush current: 38 A max, cold start @ 25°C Efficiency: 75% typical at full load EMI filter: 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 1.0 mA @ 50/60 Hz, 264 VAC input

leakage current:

Output

Maximum power: 110 W convection (75 W with cover)

175 W with 30 CFM forced air

(130 W with cover)

Adjustment range: 2:1 wide ratio minimum Standby outputs: 5 V @ 2 A regulated ±5%

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: 10% to 40% above nominal output

Aux output: 12 V @ 1 A -5 %, +10%





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Logic Control	
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

Pin Assignments							
Connector	LPS17x						
SK1	PIN 1	+12 V					
	PIN 2	5 V Standby					
	Pin 3	Common					
	Pin 4	V1 SWP					
	PIN 5	Common					
	PIN 6	+V1 sense					
	PIN 7	Sense common					
	PIN 8	Remote inhibit					
	PIN 9	DC power good					
	PIN 10	POK					
SK2	TB-1	COMMON					
	TB-2	Main output					
SK3	PIN 1	GROUND					
	PIN 2	LINE					
	Pin 5	NEUTRAL					

Environmental Specifications

Operating temperature: 0° to 50 °C ambient;

derate each output at 2.5% per degree from 50° to 70 °C

Low temperature start:

Temperature coefficient: ±0.4% per °C Storage temperature: -40° to 85 °C

Electromagnetic

susceptibility: Designed to meet IEC 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 0.75G peak 5Hz to 500Hz, operational

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

Orderin	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				
LPS172	5 V (2.5 - 6 V)	0 A	22 A	35 A	38 A	±2%	50 mV				
LPS173	12 V (6 - 12 V)	0 A	9.1 A	15 A	16.5 A	±2%	120 mV				
LPS174	15 V (12 - 24 V)	0A	7.3 A	12 A	13.2 A	±2%	<1%				
LPS175	24 V (24 - 54 V)	0A	4.5 A	7.5 A	8.2 A	±2%	<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 μF in parallel with a 0.1 μF capacitor at rated line voltage and load ranges.
- 4. Remote inhibit resets OVP latch.

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

Mating Connectors

AC Input (SK3): Molex 09-50-8051 (USA)

Molex 09-91-0500 (UK) PINS: 08-58-0111

DC Outputs (SK2): Molex 19141-0058

Control Signals Molex 90142-0010 (USA) (SK1):

PINS: 90119-2110 or Amp: 87977-3

PINS: 87309-8

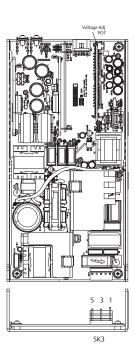
Emerson Network Power Connector Kit #70-841-016, includes all of the above

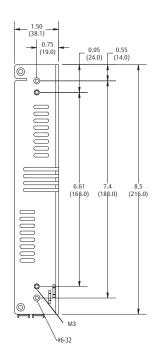
- 1. Specifications subject to change without notice.
- All dimensions in inches (mm), tolerance is ± 0.02 " (± 0.5 mm)
- Mounting holes M1 and M2 should be grounded for EMI purposes.
- 4. Mounting hole M1 is safety ground connection.
- 5. Specifications are for convection rating at factory settings at 115 VAC input, 25 °C unless otherwise stated.
- 6. Warranty: 2 year
- 7. Weight: 1.8 lbs/0.85 kg

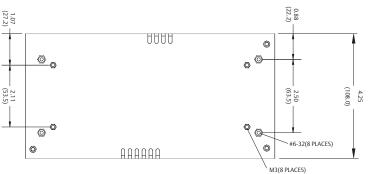
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Mechanical Drawing









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:

Welcome to visit www.ameya360.com

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