# 175 Watts LPS170 Series



## **Special Features**

- Active power factor correction
- IEC EN61000-3-2 compliance
- Wide Range Adjustable output Remote sense on main output
   Single wire current sharing
- 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)

## Environmental

Operating temperature: 0° to 50°C ambientderate each output at 2.5% per degree from 50° to 70°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 0.75 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

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

# **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 Aux output

## Logic Control

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) 2:1 wide ratio minimum 20 ms @175 W load at nominal line Short circuit protection on all outputs. Case overload protected @ 110-145% above peak rating 10% to 40% above nominal output 5 V @ 2A regulated ±5% 12 V @ 1 A -5 %, +10%

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				

Asia (HK): 852-2437-9662



### AMERICAS

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ASIA



**Ordering Information** 

Model Number	Output Voltage	Minimum Load	Maximum Load with Convection Cooling	Maximum Load with 30 CFM Forced Air	Peak Load	Regulation2	Ripple P/P(PARD)3
LPS172	5 V (2.5-6V)	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)	0 A	7.3 A	12 A	13.2 A	±2%	<1%
LPS175	24 V (24-54 V)	0 A	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.

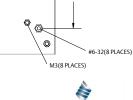
3. Peak-to-peak with 20 MHz bandwidth and  $10 \,\mu$ F in parallel with a 0.1  $\mu$ F capacitor at rated line voltage and load ranges.

4. Remote inhibit resets OVP latch

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

Or	derin	g Information		+ -
Connector	LPS17x		<u>цт с 10</u> SK1	SK3
SK1	PIN 1	+12V		Voltage Adj
	PIN 2	5V Standby		POT
	PIN 3	Common		
	PIN 4	V1 SWP		Tož I
	PIN 5	Common		<b>S</b>
	PIN 6	+V1 sense		
	PIN 7	Sense common		
	PIN 8	Remote inhibit	H ÉOH	
	PIN 9	DC power good		- AR
	PIN 10	РОК		
SK3	TB-1	COMMON		
575	TB-2	Main output		₩.H   H
	102	Main output		
SK4	PIN 1	GROUND		
	PIN 3	LINE		
	PIN 5	NEUTRAL		
			TH R	
Mating Con				
(SK4) AC Inp		Molex 09-50-8051 (USA)		
		Molex 09-91-0500 (UK)		
		PINS: 08-58-0111		
(SK3) DC Ou	tout:		<b>Ö</b> HLILT	
(SKS) DC Ou		Molex 19141-0058		
		NOIEX 19141-0058		531
(SK1) Contro	l Signals:			
· · /		Molex 90142-0010 (USA)	<u></u>	
		PINS: 90119-2110 or	( <u>-</u>	SK4
		Amp: 87977-3		514
		PINS: 87309-8	1	
			1.07 (27.2)	
Astec connee	tor kit #70	-841-016		
Natas				
	Notes:			
	<ol> <li>Specifications subject to change without notice.</li> <li>All dimensions in inches (mm), tolerance is ±0.02".</li> </ol>			
	3. Specifications are for convection rating at factory settings unless otherwise stated.		2.11 (53.5)	
		mum insertion depth is 0.12".	Ĩ.	
5. Warranty:			, I	
6. Weight: 1.		A A A A A A A A A A A A A A A A A A A		
		2	0	
			¥	

1.50 (38.1) 0.75 (19.0)	-	0.95	0.55 (14.0)	
	6. (16	61 7 8.0) (18	.4 8 8.0) (21	.5 6.0)
	M3 #6-32			<u> </u>



**EMERSON** 

**Network Power** 

LPS170 Series