# 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
- 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	0805/EN60950 (IEC950)
UL	UL1950
CB	Cortificate and report
CB	Certificate and report
CSA	CSA 22.2-234 Level 3
CE	Mark (LVD)
NEMKO	EN 60950/EMKO-TUE



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### AMERICAS

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#### EUROPE

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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		ц <u>г. с 10</u> SK1	sK3	1.50
SK1	PIN 1	+12V	Voltage	Adj	(38.1)
	PIN 2 PIN 3	5V Standby Common			(19.0) 0.95 0.55 (24.0) (14.0)
	PIN 4	V1 SWP			
	PIN 5	Common			
	PIN 6	+V1 sense			
	PIN 7 PIN 8	Sense common Remote inhibit		ŇŎ	
	PIN 8 PIN 9	DC power good			
	PIN 10	POK			
			D D D D D D D D D D D D D D D D D D D		0000000
SK3	TB-1	COMMON			
	TB-2	Main output			6,61 7,4 8,5
SK4	PIN 1	GROUND			6.61 7.4 8.5 (168.0) (188.0) (216.0)
	PIN 3	LINE			
	PIN 5	NEUTRAL			
Mating Con	nactors				
(SK4) AC Inp		Molex 09-50-8051 (USA)			
· / ·		Molex 09-91-0500 (UK)			
		PINS: 08-58-0111		S [0]	
(SK3) DC Out	tout		<b>Ö</b> HLLİ F		
(3K3) DC Ou	ւքսւ.	Molex 19141-0058	8		© <<
			5 :	3 1	
(SK1) Contro	l Signals:		Ê		#6-32
		Molex 90142-0010 (USA) PINS: 90119-2110 or			`#b-32
		Amp: 87977-3	SI	<4	
		PINS: 87309-8	<u>.</u>		0.88 (22.2)
			1.07 (27.2)		.2 88
Astec connec	ctor kit #70	0-841-016	•	8888	
Notes:					0
<ol> <li>Specifications subject to change without notice.</li> </ol>				0 <sup>©</sup>	
		nes (mm), tolerance is ±0.02".			
<ol> <li>Specification</li> <li>otherwise state</li> </ol>		convection rating at factory settings unless	2.11		(63.5)
		imum insertion depth is 0.12".	5)		0
5. Warranty:					
6. Weight: 1.		kg	- <u> </u>		₹œ <u></u>
			•		$\backslash \circ$
			L	ннннн	#6-32 M3(8 PLACES)
					M3(8 PLACES)