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LPT80 Series

80 Watts

Total Power: 55 - 85 Watts **Input Voltage:** 85-264 Vac 120-370 Vdc # of Outputs: Triple

Special Features

- Power Factor Correction
- EN61000-3-2 compliant
- Universal input
- 3" x 5" footprint
- Remote sense on outputs 1 (& 2 for LPT81)
- Power fail and remote inhibit
- Wide range adjustable on outputs 1 (& 2 for LPT81)
- Built-in Class B EMI filter
- Overvoltage protection
- Overload protection

Safety

VDE 60950 UL 60950 **CSA** 60950 **NEMKO** 60950 **AUSTEL** 60950

CB Certificate & report

CE Mark LVD





Input

Input range: 85-264 Vac; 120-300 Vdc

Frequency: 47-440 Hz

> <18 A peak @ 115 Vac; <36 A peak @ 230 Vac,

cold start @ 25 °C

Input current: 1.5 A max. (RMS) @ 115 Vac 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

Safety ground leakage current:

Inrush current:

<1 mA @ 50/60 Hz, 264 Vac input

Output

Maximum power: 60 W for convection(LPT81, 55 W);

85 W with 30 CFM forced air

Adjustment range: 3.3 V - 5.5 V on outputs one

(and two 1.8 V - 3.5 V for LPT81)

Hold-up time: 20 ms @85 W load, 115 Vac nominal line Overload protection: Short circuit protection on all outputs.

Case overload protected @ 145% above peak rating

Overvoltage protection: Tracks outputs 1(& 2 for LPT81): 20% to 35% above

output setting





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Logic ControlPower failureTTL logic signal goes high 100 - 500 msec after V1 output; It goes low at least 4 msec before loss of regulationRemote inhibitRequires contact closure to inhibit outputsRemote senseCompensates for 0.5 V lead drop min. Will operate without remote sense connected. Reverse connection protected.

Environmental Specifications

Operating temperature: 0° to 50 °C ambient;

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

Temperature coefficient: $\pm 0.4\%$ per °C Storage temperature: $\pm 0.4\%$ 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 0.75 G peak 5 Hz to 500 Hz, operational

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

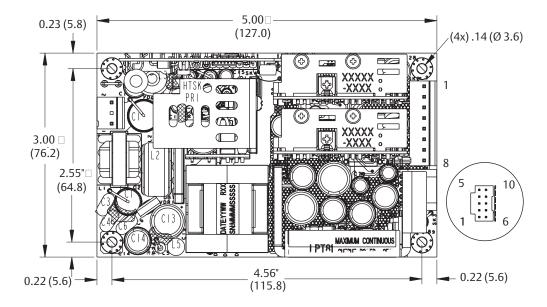
Ordering Information

Model Number LPT81	Output Voltage +3.3 V (1.8 - 3.5 V) +5 V (3.3 - 5.5 V) +12 V	Load	Maximum Load with Convection Cooling 8.0 A 4.0 A 0.7 A		Peak Load ¹ 15 A 15 A 1.5 A	Regulation ² ±2% ±2% ±5%	Ripple P/P (PARD) ³ 50 mV 50 mV 120 mV
LPT82	+5 V (3.3 - 5.5 V) +12 V -12 V	0.7 A 0.3 A 0	8.0 A 3.0 A 0.7 A	13 A 4.0 A 1.0 A	15 A 4.6 A 1.5 A	±2% ±5% ±5%	50 mV 120 mV 120 mV
LPT83	+5 V (3.3 - 5.5 V) +15 V -15 V	0.7 A 0.3 A 0	8.0 A 2.4 A 0.7 A	13 A 3.2 A 0.7 A	15 A 3.7 A 1 A	±2% ±5% ±5%	50 mV 150 mV 150 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. Minimum loads are required
- 5. Total current of all outputs can not exceed 21 A.

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Mechanical Drawing



Pin	Pin Assignments						
Conn	ector	LPT81	LPT82/83				
SK1	Pin1	Neutral	Neutral				
	Pin3	Line	Line				
SK2	Pin1	V1 (3.3V)	V1 (5 V)				
	Pin2	V1 (3.3V)	V1 (5 V)				
	Pin3	Common	Common				
	Pin4	Common	Common				
	Pin5	Common	Common				
	Pin6	V2 (5V)	V2 (12/15V)				
	Pin7	V2 (5V)	V2 (12/15V)				
	Pin8	V3 (12V)	V3 (-12V/15)				
SK3	Pin1	+V1 Remote sense	+V1 Remote sense				
	Pin2	-V1 Remote sense	-V1 Remote sense				
	Pin3	+Remote inhibit	+Remote inhibit				
	Pin4	-Remote inhibit	-Remote inhibit				
	Pin5	+Power fail	+Power fail				
	Pin6	Common	Common				
	Pin7	No connection	No connection				
	Pin8	+V2 sense	No connection				
	Pin9	-V2 sense	No connection				
	Pin10	No connection	No connection				

Mating Connectors
(SK1)AC Input:

(SK3) Control Signals:

Molex 09-50-8031 (USA) 09-91-0300 (UK) PINS: 08-58-0111

(SK2)DC Outputs: Molex 09-50-8081 (USA) 09-91-0800 (UK)

PINS: 08-58-0111

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

Astec connector kit:
#70-841-018
includes all the above

Notes:

- 1. Specifications subject to change without notice.
- 2.All dimensions in inches (mm), tolerance is $\pm .02$ ".
- 3. Mounting holes M1, M2 and M3 should be grounded for EMI purposes.
- 4. Mounting hole M1 is safety ground connection.
- Specifications are for convection rating at factory settings at 115 VAC input, 25°C unless otherwise stated.
- 6. Warranty: 2 year 7. Weight: 0.8 lb. / 0.36 kg

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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