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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

<1 mA @ 50/60 Hz, 264 Vac input Safety ground leakage current:

Inrush current:

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

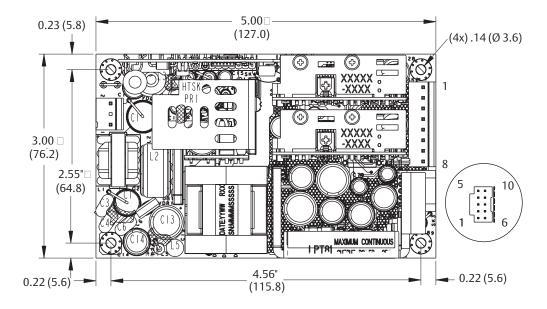
Ordering Information

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	Maximum Load with 30CFM forced Air 13 A13 A 1.0 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)	0.7 A	8.0 A	13 A	15 A	±2%	50 mV
	+12 V	0.3 A	3.0 A	4.0 A	4.6 A	±5%	120 mV
	-12 V	0	0.7 A	1.0 A	1.5 A	±5%	120 mV
LPT83	+5 V (3.3 - 5.5 V)	0.7 A	8.0 A	13 A	15 A	±2%	50 mV
	+15 V	0.3 A	2.4 A	3.2 A	3.7 A	±5%	150 mV
	-15 V	0	0.7 A	0.7 A	1 A	±5%	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	Assignn	nents		
Connector		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:	

Astec connector kit:

rt: 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

(SK3) Control Signals: Molex 90142-0010 (USA) PINS: 90119-2110 or

Amp: 87977-3 PINS: 87309-8

#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.
- 5.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

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