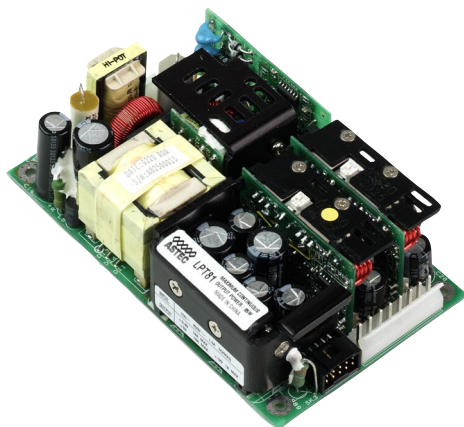


80 Watts LPT80 Series

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

Environmental

Operating temperature: 0° to 50°C ambient;
derate each output at 2.5% per degree from 50° to 70°C

Electromagnetic susceptibility: designed to meet
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: $\pm 0.04\%$ per °C

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

Electrical Specs

Input

Input range	85-264 VAC 120-300 VDC
Frequency	47-440 Hz
Inrush current	<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	<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	3.3V - 5.5V 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

Logic Control

Power Failure	TTL Logic signal goes high 100-500 msec after main output; it goes low at least 4 ms before loss of regulation
Remote inhibit	Requires a contact closure to inhibit the outputs
Remote sense	Compensates for 0.5 V lead drop min. Will operate without remote sense connected. Reverse connection protected.

Safety

VDE	60950
UL	60950
CSA	60950
NEMKO	60950
AUSTEL	60950
CB	Certificate & report
CE	Mark LVD

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Fwai Fong, New Territories
Hong Kong
Telephone: 852-2437-9662
Facsimile: 852-2402-4426



Ordering Information

Model Number	Output Voltage	Minimum Load	Maximum Load with Convection Cooling	Maximum Load with 30 CFM Forced Air	Peak Load1	Regulation2	Ripple P/P (PARD)3
LPT81	+3.3 V (1.8 - 3.5 V)	0.7 A	8.0 A	13 A	15 A	±2%	50 mV
	+5 V (3.3 - 5.5 V)	0.3 A	4 A	13 A	15 A	±2%	50 mV
	+12 V	0	0.7 A	1.0 A	1.5 A	±5%	120 mV
LPT82	5 V (3.3-5 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 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	1 A	1.5 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.

Pin Assignments

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

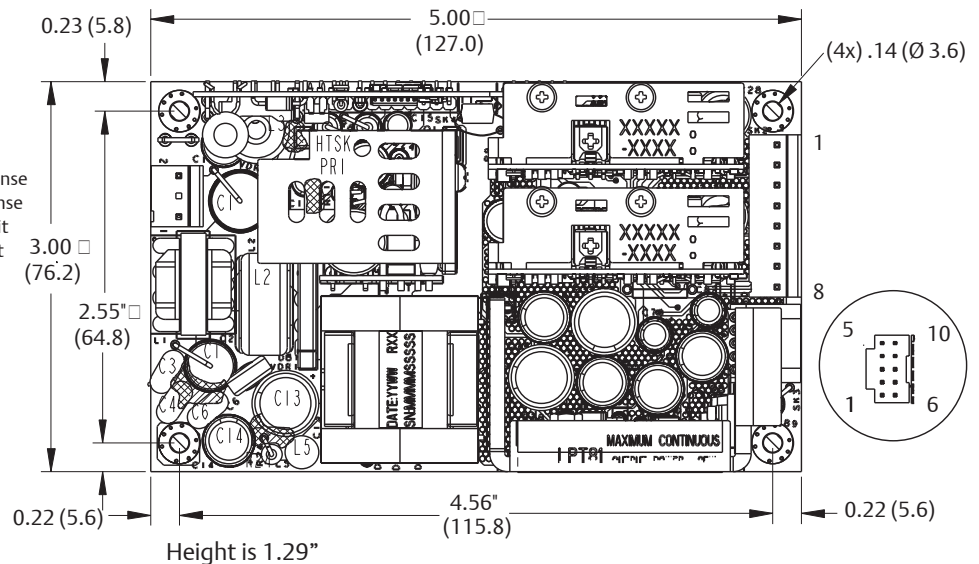
Mating Connectors

(SK1) AC Input: 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

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 ±.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: 1 year
7. Weight: 0.8 lb. / 0.36 kg