Embedded Power for Business-Critical Continuity

> Rev. 09.15.09_12 LPS120 Series 1 of 3

LPS120 Series 120 Watts

Total Power: Input Voltage: # of Outputs: 80 - 130 Watts 85 - 264 VAC Single





Special Features

- Active power factor correction
- 3" x 5" footprint
- Less than 1U high
- EN61000-3-2 compliant
- Remote sense
- Power fail and remote inhibit
- Single wire current sharing
- Adjustable main output
- Built-in Class B EMI filter
- Overvoltage protection
- Overload protection
- Thermal overload protection
- 5 V Standby output and 12V Fan output

Safety

60950
60950
60950
60950
60950
Certificate and report
Mark (LVD)

Electrical Specifications

Input	
Input range:	85 - 264 VAC ; 127 - 300VDC
Frequency:	47 - 440 Hz
Inrush current:	40 A max., cold start @ 25 °C
Efficiency:	80% typical at full load
EMI/RFI:	FCC Class B conducted; CISPR22 Class B conducted; EN55022 Class B conducted; VDE0878PT3 Class B conducted
Power factor:	0.99 typical
Safety ground leakage current:	0.5 mA @ 50/60 Hz, 264 VAC input
Output	
Maximum power:	80 W for convection ; 130 W with 30CFM forced air
Adjustment range:	± 5% minimum on the main outputs
Fan output:	12 V @ 500mA - 5%, +7%
Standby outputs:	5V @ 500mA ± 5%
Hold-up time:	20ms @ 125 W load, 120 VAC input
Overload protection:	Short circuit protection on all outputs. Case overload protected @ 120 - 135% above rating
Overvoltage protection:	20 - 35% above nominal output
Remote sense:	Compensates for 0.5 V lead drop max. Will operate without remote sense connected. Reverse connection protected.
Logical Control	
Power failure:	TTL logic signal goes high 100 - 500 msec after main output; it goes low at least 4 msec before loss of regulation
Remote inhibit:	Requires a contact closure to disable the outputs, except 5 V standby.
Remote sense:	Compensates for 0.5 V lead drop min. Will operate without remote sense connected. Reverse connection protected.

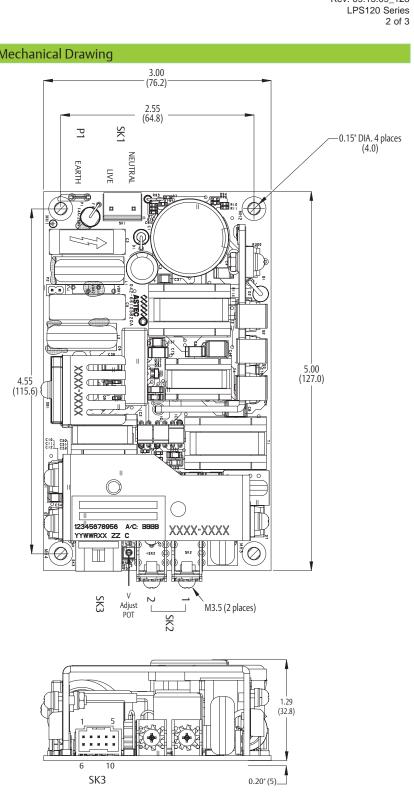




Rev. 09.15.09_128

Environmental Specifications

Operating temperature:	0° to 50 °C ambient derate each output as 2.5% per degree from 50° to 70 °C20 °C start up	N
Storage temperature: Electromagnetic susceptibility:	-40 °C to +85 °C Designed to meet EN61000-4; -2, -3, -4, -5, -6, -8, -11 Level 3	
Humidity:	Operating; non-condensing 10% to 95% RH	
Vibration:	IEC68-2-6 to the levels of IEC721-3-2	
MTBF demonstrated	> 550,000 hours at full load and 25 °C ambient conditions	



Ordering Information Maximum Load Maximum Load Ripple Minimum Model Output with Convection with 30CFM Peak Load Regulation² P/P Number Voltage Load (PARD)³ Cooling **Forced Air** LPS121 3.3 V 0 A 21 A 36 A 29 A ± 2% 50 mV LPS122 5 V 0 A 16 A 26 A 29 A ± 2% 50 mV LPS123 12 V 0 A 6.7 A 10.8 A 12.8 A ± 2% 120 mV LPS124 15 V 0 A 5.3 A 8.7 A 10.0 A + 2% 150 mV LPS125 24 V 0 A 3.4 A 5.4 A 6.3 A ± 2% 240 mV LPS128 48 V 0 A 1.7A 2.7 A 3.2 A ± 2% 480 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 (tantalum capacitor) in parallel with a 0.1 μF capacitor at rated line voltage and load ranges.

4. When in parallel a 10% load is required for each power supply.

Pin Assignments

Connector	LPS120	
SK1	Pin1 Pin3	Neutral Line
SK2	TB-1 TB-2	COMMON Main output
SK3	Pin1 Pin2 Pin3 Pin4 Pin5 Pin6 Pin7 Pin8 Pin9 Pin10	+V1 Remote sense -V1 Remote sense +Remote inhibit -Remote inhibit +Power fail Common SWP +12V 12V common +5V standby
Mating Cor (SK1)AC Inp		Molex 09-50-8031 (connector) 08-52-0113 (pins)
(SK2)DC Output:		Molex series 19141-0058/0063 Spade lug
(SK3) Control Signals:		Molex 90142-0010 (USA) PINS: 90119-2110 or Amp: 87977-3

Emerson Network Power Connector Kit # 70-841-020, includes all of the above. **Notes:**

- 1. Specifications subject to change without notice.
- 2. All dimensions in inches (mm), tolerance is ± .02".
- 3. mounting holes MH1, MH2, MH3 should be grounded for EMI purpose

PINS: 87309-8

- 4. Mounting MH1 is safety ground connection
- Specifications are for convection rating at factory settings at 115 VAC input 25 °C unless otherwise stated.
- 6. This power supply requires mounting on metal standoffs 0.20" (5m) in height.
- 7. Warranty: 2 year
- 8. Weight: 0.71 lb. / 0.32 kg

Americas

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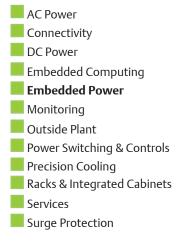
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