# 125 Watts LPS120 Series



# **Special Features**

- Active power factor correction
- 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

## 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 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 condition

Total Power: 80-130 Watts Input Voltage: 85-264 VAC # 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 Fan output Standby outputs Hold-up time Overload protection 85-264 VAC, 120-300 VDC 47-440 Hz 40 A max., cold start @ 25°C 80% typical at full load FCC Class B conducted CISPR 22 Class B conducted EN55022 Class B conducted VDE 0878 PT3 Class B conducted 0.99 typical

0.5 mA @ 50/60 Hz, 264 VAC input

80 W for convection; 130 W with 30 CFM forced air ±5% minimum on the main outputs 12V @ 500mA -5%, +7% 5V @ 500mA ±5% 20 ms @ 125 W load, 120 VAC input Short circuit protection on all outputs. Case overload protected @ 120-135% above peak rating 20% to 35% above nominal output

Overvoltage protection

### Logical Control

Power failure

Remote inhibit

Remote sense

TTL logic signal goes high 100-500 msec after main output; it goes low at least 4 msec before loss of regulation Requires a contact closure to disable the outputs, except 5V standby. Compensates for 0.5 V lead drop min. Will operate without remote sense connected. Reverse connection protected.

	Safety
TUV	60950
UL	60950
CSA	60950
NEMKO	60950
AUSTEL	60950
CB	Certificate and report
CE	Mark (LVD)



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# **Ordering Information**

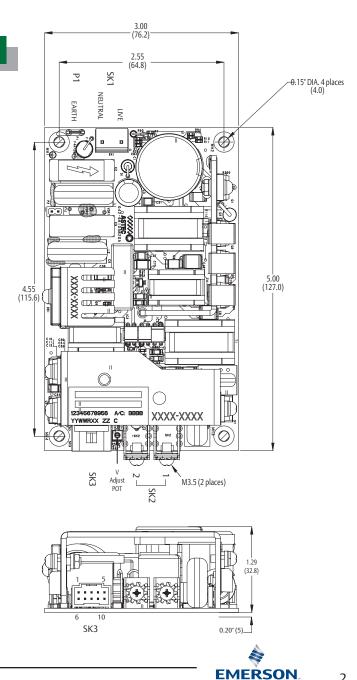
Model Number	Output Voltage	Minimum Load	Maximum Load with Convection Cooling	Maximum Load with 30 CFM Forced Air	Peak Load'	Regulation <sup>2</sup>	Ripple P/P (PARD)³
LPS121	3.3V	0A	21A	36A	29A	±2%	50mV
LPS122	5V	0A	16A	26A	29A	±2%	50mV
LPS123	12V	0A	6.7A	10.8A	12.8A	±2%	120mV
LPS124	15V	0A	5.3A	8.7A	10.0A	±2%	150mV
LPS125	24 V	0 A	3.4 A	5.4 A	6.3 A	±2%	240 mV
LPS128	48V	0 A	1.7 A	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  $10 \,\mu\text{F}$  in parallel with a 0.1  $\mu\text{F}$  capacitor at rated line voltage and load ranges.

		Pin Assignments
Connector	LPS120	
SK1	Pin1 Pin3	Neutral Line
SK2	TB-1 TB-2	COMMON Main output
SK3 Mating Con (SK1)AC Inp		+V1 Remote sense -V1 Remote sense +Remote inhibit -Remote inhibit +Power fail Common SWP +12V 12V common +5V standby Molex BB-50-8061
(SK2)DC Ou	tput:	Molex series 19141-0058/0063
(SK3) Contro		Molex 90142-0010 (USA) PINS: 90119-2110 or Amp: 87977-3 PINS: 87309-8
Notes: 1. Specifica 2. All dime 3. mountin EMI pur 4. Mountin 5. Specifica at 115 V 6. This pow	ations subj nsions in ir ng holes M pose ng MH1 is s ations are f 'AC input 2 ver supply i m) in heigl y: 1 year	



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