



Wall Industries, Inc.

PSPW120 Series
120 Watts with PFC
5" x 3" x 1.18" Single Output
AC/DC Open Frame Power Supply

FEATURES

- PFC > 0.9
• Single Output
• Universal AC Input
• Output Voltages from 12 to 24VDC
• 5(L) x 3(W) x 1.18(H) inches (127 x 76.2 x 30 mm)
• Over Voltage/ Over Load/ Short Circuit Protected



5(L) x 3(W) x 1.18(H) inches

SPECIFICATIONS: PSPW120 Series

All specifications apply @ ±25°C ambient unless otherwise noted

INPUT SPECIFICATIONS

Input Range.....90-264VAC
Input Frequency.....47-63Hz
Input Current.....2.5A max. (RMS) @ 115VAC
Inrush Current..... < 30A peak at 115VAC cold start @ 25°C
..... < 50A peak at 230VAC cold start @ 25°C

OUTPUT SPECIFICATIONS

Output Current..... see table
Output Power..... 120W max with convection cooling
Output Regulation..... see table
Ripple/Noise (20 MHz BW)..... 1%
Hold-up Time..... 16ms at 120 watt load & 115VAC nominal line

PROTECTION

Short Circuit Protection..... Auto recover
Over Voltage Protection..... Output 110%-130% above following nominal output.
..... Latching type, AC Recycle
Over Load Protection..... Over load protected @ 105%-150% above following maximum rating.

GENERAL SPECIFICATIONS

Efficiency..... 85% typical at full load
Power Factor.....>0.9

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature..... 0°C to +40°C ambient derate each output at 2.5% per degree from +40°C to 60°C
Humidity (non-condensing)..... 5% to 95%
Temperature Coefficient..... ±0.04% / °C
Cooling..... free air convection
MTBF..... 80,000 hrs at full load and 25°C ambient temperature

PHYSICAL SPECIFICATIONS

Weight..... 10 oz
Dimensions..... 5 x 3 x 1.18 inches (127 x 76.2 x 30 mm)

SAFETY & EMC

Safety Standards..... UL 60950-1
..... CSA C22.2 No. 60950-1
..... TUV EN60950-1
..... CB IEC 60950-1
EMC Standards..... FCC Part 15 Class B
..... CISPR 22 Class B
..... EN 55022 Class B
..... EN 55024
..... EN 61000-3-2 Class D
..... CE

Due to advances in technology, specifications subject to change without notice



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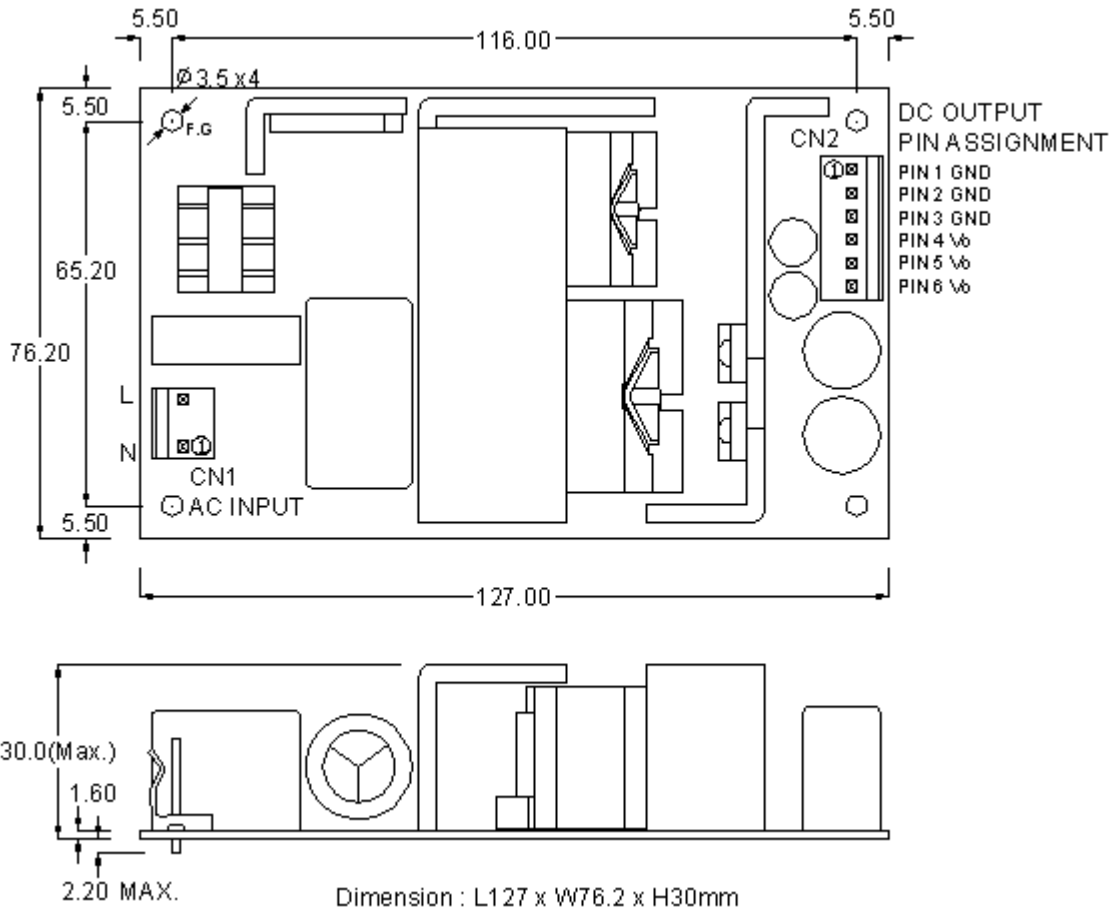
OUTPUT VOLTAGE /CURRENT RATING CHART

MODEL	Output Voltage	Min Load	Max. Output Current (convection cooling)	Output Power	Output Regulation	Ripple & Noise
PSPW120B-1Y12P	12 VDC	0A	10A	120W	3%	120mV
PSPW120B-1Y15P	15 VDC	0A	8A	120W	2%	150mV
PSPW120B-1Y18P	18 VDC	0A	6.67A	120W	2%	180mV
PSPW120B-1Y19P	19 VDC	0A	6.32A	120W	2%	190mV
PSPW120B-1Y24P	24 VDC	0A	5A	120W	2%	240mV

NOTES

1. At 25°C including initial tolerance, line voltage, load currents, and output voltages adjusted to factory settings.
2. Peak-to-peak with 20mHz bandwidth with a tantalum 10uF capacitor in parallel with a 0.1uF ceramic capacitor.

MECHANICAL DRAWING



MATCHING CONNECTORS

CN1 = AC INPUT MOLEX P/N: 09-65-2029 (OR EQUIVALENT) FEMALE HOUSING MOLEX P/N: 09-76-1020 (OR EQUIVALENT)
 CN2 = DC OUTPUT MOLEX P/N: 09-65-2068 (OR EQUIVALENT) FEMALE HOUSING MOLEX P/N: 09-52-4064 (OR EQUIVALENT)