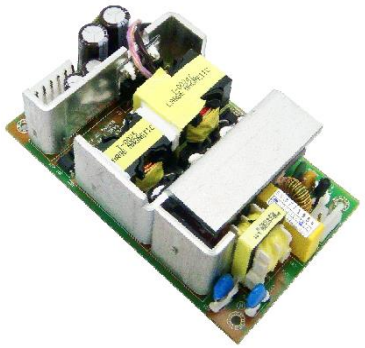
POWER-WIN TECHNOLOGY CORP.

www.power-win.com

120Watts Single Output

Open Frame Type Switching Power Supply



FEATURES

- Build-in active PFC function
- 100% Burn-in and Hi-pot tested
- 2 year warranty

ELECTRICAL SPECIFICATIONS

- Input range : 90 - 264VAC
- Frequency : 47 - 63Hz
- Power Factor : > 0.95 @115VAC; > 0.90 @230VAC @full load
- Inrush current : < 30A peak @115VAC; < 60A peak @230VAC cold start @25°C
- Input current (rms) : 2.5A @115VAC; 1.25A @230VAC max.
- Efficiency : > 85% typical @full load, 115VAC
- Maximum output power (Po) : 120 Watts convection cooling
- Hold-up time : > 16ms typical @full load, 115VAC
- Short circuit protection : Auto-recovery
- Over load protection : 105% to 150% maximum rating, Auto-recovery
- Over voltage protection : Shutdown

RoHS compliant

Dimension : L127 × W76.2 × H30 mm (5"× 3"× 1.18")

Weight : 0.31 kgs. (0.68 lbs.)

Safety standards

UL 60950-1
UL 62368-1
CSA C22.2 No.60950-1
CSA C22.2 No.62368-1
TUV EN60950-1
TUV EN62368-1
TUV EN60950-1
TUV EN62368-1

EMI standards

FCC Class B Part 15
CISPR22 Class B
EN 55032 Class B
CE

ENVIRONMENTAL

- Operating temperature : 0 to +60°C (Derate linearly 2.5% per °C from 41 to 60°C)
- Storage temperature: -10°C to +70°C
- Humidity: Non-condensing 10% to 95%
- MTBF : > 100,000 hours @full load and 25°C ambient temperature

DC OUTPUT & FEATURES

Model No.	Output Voltage	Minimum Load	Maximum Load with Convection Cooling	Po	O/P Regulation	Ripple & Noise(Vp-p)
PW-120B-1Y12P	+12V	0A	10A	120W	±3%	120mV
PW-120B-1Y15P	+15V	0A	8A	120W	±2%	150mV
PW-120B-1Y18P	+18V	0A	6.67A	120W	±2%	180mV
PW-120B-1Y19P	+19V	0A	6.32A	120W	±2%	190mV
PW-120B-1Y24P	+24V	0A	5A	120W	±2%	240mV
PW-120B-1Y30P	+30V	0A	4A	120W	±2%	300mV
PW-120B-1Y32P	+32V	0A	3.75A	120W	±2%	320mV
PW-120B-1Y36P	+36V	0A	3.34A	120W	±2%	360mV
PW-120B-1Y48P	+48V	0A	2.5A	120W	±2%	480mV

Note: 1. At 25°C including initial tolerance, line voltage, load currents and output voltages adjusted to factory settings.

2. Ripple and noise are measured at oscilloscope 20MHz bandwidth by a 10uF electrolytic capacitor and a 0.1uF ceramic capacitor in parallel at output connector.

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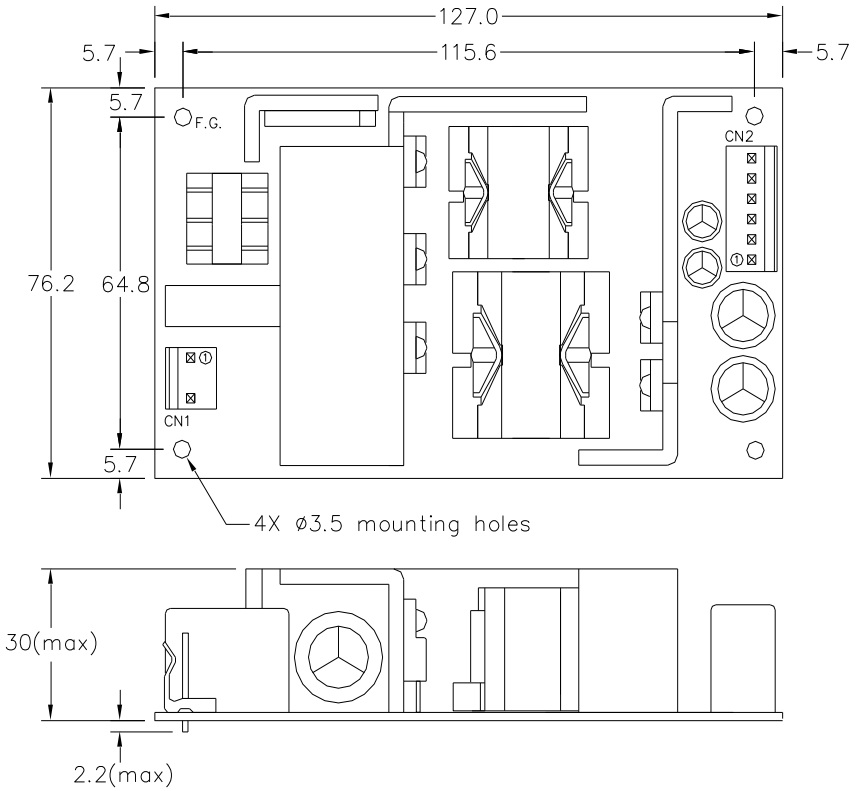
MECHANICAL SPECIFICATION



MATCHING CONNECTORS

CN1: Input Connector

molex 09-65-2029 pitch: 7.92mm or equivalent, mates with female housing molex 09-76-1020 or equivalent

Pin #	Signal
1	AC Neutral
2	AC Line

CN2: Output Connector

molex 09-65-2068 pitch: 3.96mm or equivalent, mates with female housing molex 09-52-4064 or equivalent

Pin #	Signal
1	+Vo
2	+Vo
3	+Vo
4	GND
5	GND
6	GND