



BF direct patient
contact rated



- IEC 60601-1-2 4th Edition Compliant
- BF Rated Output
- >87% Efficient
- Active Power Factor Correction
- <100uA @ 264VAC Earth Leakage Current
- Short Circuit and Overload Protection
- Overvoltage Protection
- RoHS Compliant

Electrical Specifications

Input

Input Voltage	90-264VAC
Input Frequency	47-63 Hz
Input Current	3A max (RMS) @ 115VAC
Inrush Current	<50A peak @ 115VAC, <100A peak @ 230VAC, cold start, 25°C

Output

Total Output	180W (with 15 CFM airflow)
Output Voltage	See table
Hold Up Time	>20mS at full load and 115VAC nominal line
Efficiency	87% typical, full load, 115VAC
Minimum Load	No minimum load

Protection

Overvoltage Overload	Latching type, AC Recycle 110%-150% of maximum output current. Auto recovery
Short Circuit	Auto recovery

Environmental & Operating

Operating Temperature	0°C to +60°C, with linear derating from 41°C to 60% power at 60°C
Storage Temperature	-40°C to +85°C
Humidity	5% - 95% non-condensing
MTBF:	>150K hours per MIL-HDBK-217F at full load and 25°C ambient

Compliance

Safety Approvals

USA	ANSI/AAMI ES60601-1
Canada	cUL ES60601-1
Europe	TUV EN60601-1 3rd edition CB Report

Isolation

4000VAC input to output, 2 x MOPP
1500 VAC input to ground, 1 x MOPP
1500 VAC output to ground, 1 x MOPP
FCC Class B Radiated & Conducted
CISPR11 Class B Radiated & Conducted
EN55011 Class B Radiated & Conducted
IEC 61000-3-2
IEC 61000-3-3

EMC (IEC 60601-1-2:2014):

IEC 61000-4-2: ±15kV Air, ±8kV contact
IEC 61000-4-3: 10V/m
IEC 61000-4-4: ±2kV
IEC 61000-4-5: 1kV diff, 2kV com
IEC 61000-4-6: 10Vrms
IEC 61000-4-8: 30A/m
IEC 61000-4-11: Voltage dip immunity, 30% reduction for 500ms, 100% reduction for 10ms

General

Dimensions	5"L x 3"W x 1.18"H
Weight	.77 pounds

Your Partners in Power.....

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Models and Ratings Chart

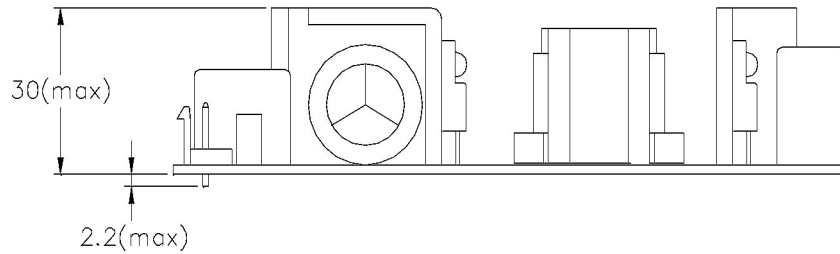
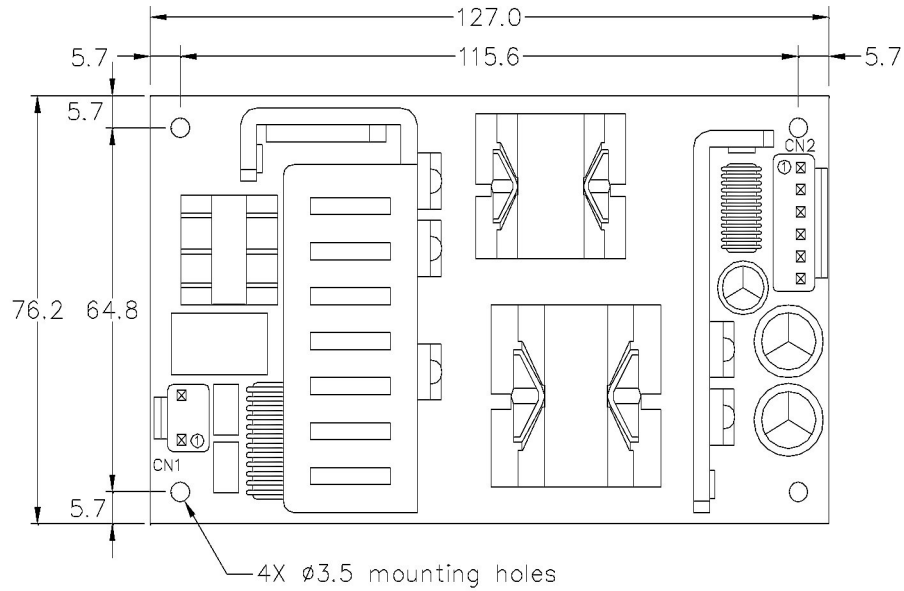
Model No.	Output Voltage	Minimum Load	Maximum Load with Convection Cooling	Maximum Load with 15 CFM Forced Air	Output Power	Output Regulation	Ripple & Noise (Vp-p)
PPWAM180-12	+12V	0A	10.00A	15.00A	180W	+/-3%	240mV
PPWAM180-13	+15V	0A	8.00A	12.00A	180W	+/-3%	240mV
PPWAM180-13-2	+19V	0A	6.32A	9.48A	180W	+/-3%	240mV
PPWAM180-14	+24V	0A	5.00A	7.50A	180W	+/-3%	240mV
PPWAM180-15	+28V	0A	4.29A	6.43A	180W	+/-3%	240mV
PPWAM180-18	+48V	0A	2.50A	3.75A	180W	+/-3%	240mV

Note:

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 an electrolytic 47uF in parallel with a 0.1uF ceramic capacitor.



Mechanical Outline / Output Cable and Pin Assignment



CN1: Input Connector

JST B3P-VH-B pitch: 3.96mm or equivalent, mates with JST VHR-3N or equivalent

Pin #	Signal
1	AC Neutral
2	AC Line

CN2: Output Connector

JST B6P-VH-B pitch: 3.96mm or equivalent, mates with JST VHR-6N or equivalent

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