



BF direct patient contact rated



- IEC 60601-1-2 4th Edition Compliant
- BF (Body Floating) Rated
- Class II Construction for Home Health Care Applications
- Class I With Functional Ground Connection
- 3" x 5" Footprint
- 100uA @ 264VAC Earth Leakage Current
- >87% Efficient
- Open Frame and Enclosed Versions Available
- Optional +5Vsb and remote on/off

Electrical Specifications

Input

Input Voltage	90-264VAC
Input Frequency	47-63 Hz
Input Current	2.5A max (RMS) @ 115VAC
Inrush Current	<30A peak @ 115VAC, <60A peak @ 230VAC, cold start, 25°C
Standby Power	<0.5W

Output

Total Output	200W (with 11.7 CFM airflow)
Output Voltage	See table
Hold Up Time	>25mS at full load and 115VAC nominal line
Average Efficiency	87% typical, full load, 115VAC
Minimum Load	No minimum load
Turn on Delay	1.5 seconds

Protection

Overvoltage	110%-150% of nominal, Latching
Overload	125%-160% of maximum output current, auto recovery
Short Circuit	Hiccup mode, auto recovery
Overtemperature	115°C max on main transformer, auto recovery

Environmental & Operating

Operating Temperature	-40°C to +70°C , with linear derating from 50°C to 50% power at 70°C
Storage Temperature	-40°C to +85°C
Humidity	5% - 95% non-condensing
MTBF:	>100K hours per MIL-HDBK-217F at full load and 25°C ambient

Compliance

Safety Approvals

USA
Canada
Europe

ANSI/AAMI ES60601-1
cUL ES60601-1
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

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

FCC Class B Radiated & Conducted
CISPR11 Class B Radiated & Conducted
EN55011 Class B Radiated & Conducted

Harmonic Currents
Voltage Flicker
Electrostatic Discharge
Radiated Immunity
EFT/Burst
Surge Immunity
Conducted Immunity
Magnetic Field
Dips / Interruptions

IEC 61000-3-2
IEC 61000-3-3
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"(127mm)L x 3"(76.2mm)W x 1.49"(37.8mm)H
AC Input CN1	3 Pin Molex 09-05-1031 or equivalent
Output CN2	6 Pin Molex 09-05-1061 or equivalent
Optional CN3	3 Pin Molex 22-01-1032 or equivalent
Weight	1.1 pounds

Your Partners in Power.....

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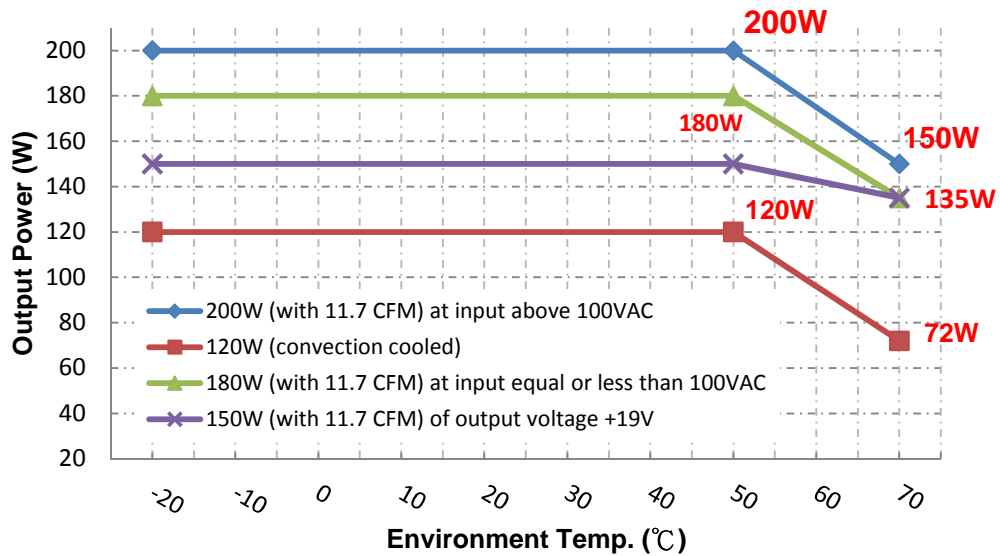
Models and Ratings Chart

Model No.	Output Voltage	Minimum Load	Maximum Load with Convection Cooling	Maximum Load with 17.1 CFM Forced Air	Output Power	O/P Regulation	Ripple & Noise (Vp-p)
PMAM200-12X	+12V	0A	10A	16.7A	200W	+/-3%	120mV
PMAM200-13-2X	+19V	0A	6.4A	8.4A	160W	+/-3%	300mV
PMAM200-14X	+24V	0A	5A	8.4A	200W	+/-3%	300mV
SB	+5Vsb	0A	0.1A	0.1A	0.5W	+/-3%	100mV

Notes

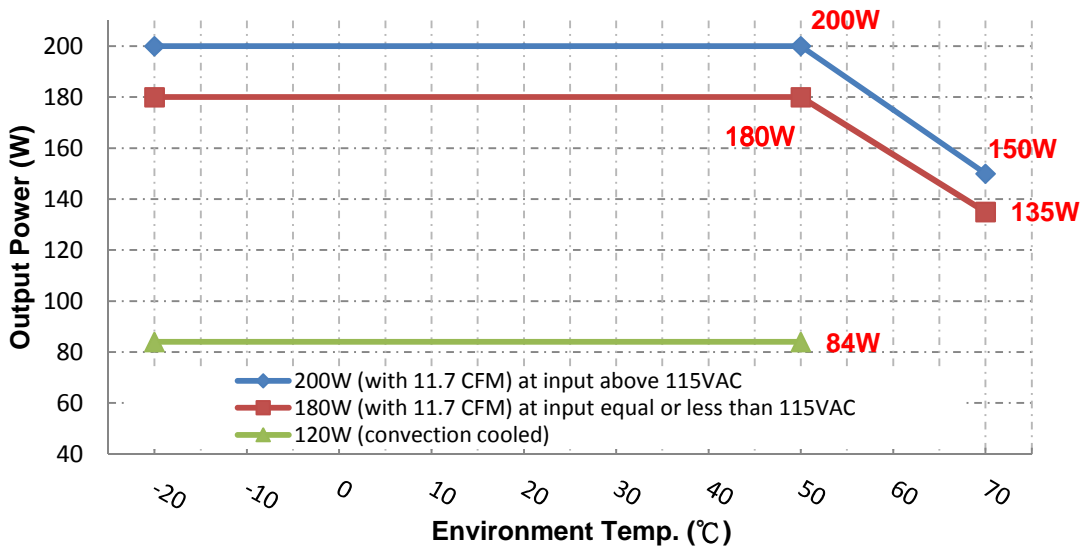
1. Change suffix "X" to "SB" for 5Vsb option. For enclosed version, add "-C".
2. At 25°C including initial tolerance, line voltage, load currents and output voltages adjusted to factory settings.
3. Peak-to-peak with 20MHz bandwidth with an electrolytic 47uF in parallel with a 0.1uF ceramic capacitor.

Derating Curve

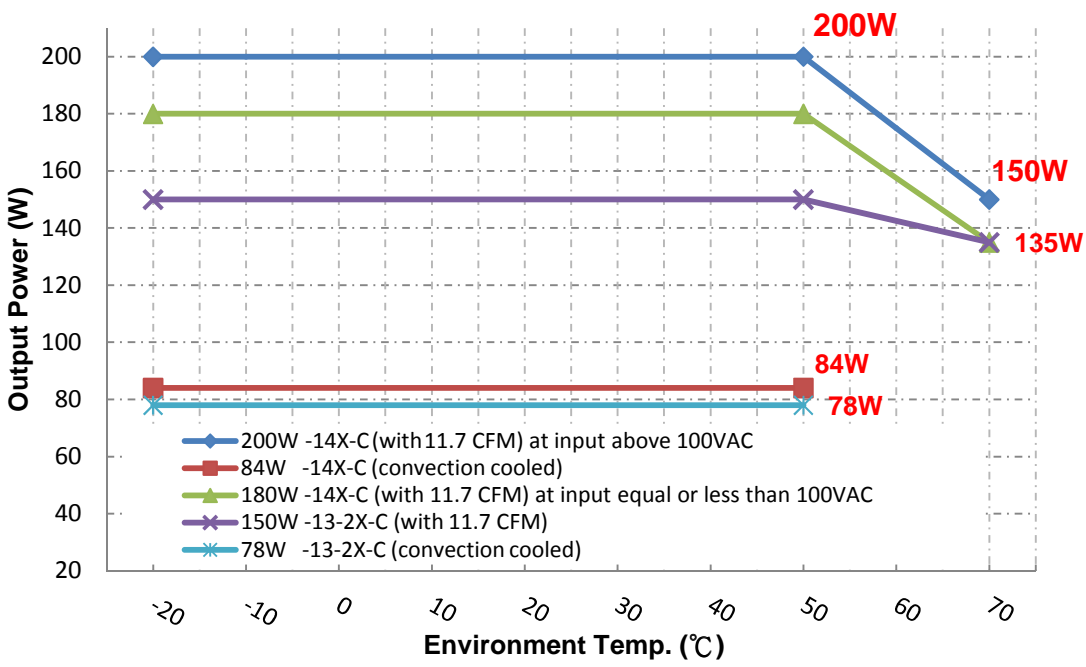


Open Frame Derating Curves of PMAM200-12X, -13-2X, -14X

*Note: The unit can start at -40°C



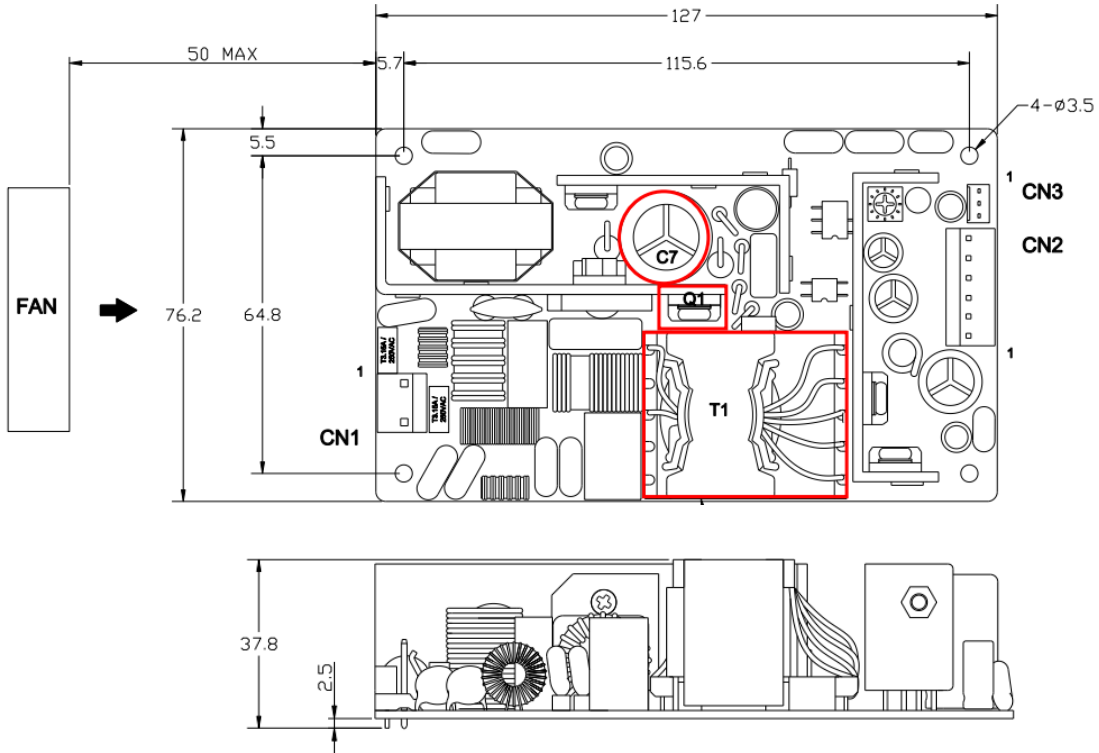
Enclosed Derating Curve of PMAM200-12X-C



Enclosed Derating Curves of PMAM200-13-2X-C, -14X-C



Mechanical Outline PMAM200 / Output Cable and Pin Assignment



Connector & Pin Assignment	Location	Pin	Assignment	Proposed Housing	Proposed Terminals
CN1 (Input)		1	AC in (L)	MOLEX: 09-50-1031 (5195-03) or 09-52-4034 (5239-03);	MOLEX: 5194 or 5225 2478, 2578,5176 or 5168;
		2	AC in (N)		
CN2 (Output)		1	+ V	MOLEX: 09-50-1061 (5195-06) or 09-52-4064 (5239-06);	MOLEX: 5194 or 5225 2478, 2578,5176 or 5168;
		2	+ V		
		3	+ V		
		4	0 V	MOLEX: 39523-7004 (Note 1)	MOLEX: N/A
		5	0 V		
6	0 V				
CN3 (Option) (Note 2)		1	+5Vsb	MOLEX: 22-01-1032 (5051-03) or 51191-0300;	MOLEX: 2759 or 5159 50802;
		2	0 V		
		3	Remote On/off		

- Note: 1) Optional output connectors, please consult factory.
 2) CN3 installed only with -SB option.
 3) For -SB models, short CN3 Pin 3 to Pin 2 to enable output.
 4) Output return isolated from Earth Ground.



Mechanical Outline PMAM200-C (Enclosed Version)

