



- Open Frame or Enclosed Versions Available
- UL / IEC / EN 60601 3.1 Edition & UL / IEC / EN 60950 AM2 Safety Approvals
- 4th Edition UL / IEC / EN 60601 EMC Compliant
- 4000VAC Input to Output Isolation (2x MOPP)
- Class I and Class II Input Configurations
- Suitable for BF Application with appropriate system consideration
- High Efficiency up to 94%
- <500mW No Load Input Power

Electrical Specifications

Input

Input Voltage	90-264 VAC
Input Frequency	47-63 Hz
Input Current (RMS)	<3.0A at 115 VAC; <1.5A at 230 VAC
Power Factor	>0.9 at Full load (230 VAC)
Inrush Current (<2ms)	<45A at 115 VAC; <90A at 230 VAC
Leakage Current	<100μA max. (Input-Output)

Environmental

Operating Temperature	-30°C to +70°C (with derating)
Storage Temperature	-30°C to +85°C
Humidity	20%-90% RH
Operating altitude	<5000 meters
MTBF:	>250k hours per MIL-HDBK-217F at full load and 25°C ambient temperature

Output

Output Power	240W max. See table for details
Output Voltage	See table
Hold Up Time	10ms min (Vout = 90% Vnominal)
Efficiency	Up to 94%. See table for details
Minimum Load	No Minimum Load

Compliance

Safety Approvals

USA/Canada	UL60601-1 3.1 Edition, UL/cUL60950-1 AM2 UL62368-1 (Pending)
Europe	IEC/EN60601-1 3rd edition, TUV EN60950-1 CB Report EN62368-1 (Pending)

Isolation:	4000VAC input to output, 2 x MOPP 2000VAC input to ground, 1 x MOPP 1500VAC output to ground, 1 x MOPP
EMC (IEC60601-1-2:2014) :	FCC Class B Radiated & Conducted EN55011/55022 Class B Radiated & Conducted (Class A Radiated for Class II Configuration)

Harmonic Currents	IEC 61000-3-2
Voltage Flicker	IEC 61000-3-3
Electrostatic Discharge	IEC 61000-4-2: 15kV Air, 8kV contact
Radiated Immunity	IEC 61000-4-3: 10V/m
EFT/Burst	IEC 61000-4-4: +/-2kV
Surge Immunity	IEC 61000-4-5: 2005 1kV diff, 2kV com
Conducted Immunity	IEC 61000-4-6: 10Vrms
Magnetic Field	IEC 61000-4-8: 30A/m
Dips / Interruptions	IEC 61000-4-11: 30% reduction for 500ms, 100% reduction for 10ms.

Protection

Overvoltage	Auto recovery
Overload	Auto recovery
Short Circuit	Auto recovery

General

Dimensions	2.05"W x 4.10"L x 1.08"H
Weight	234g Typical



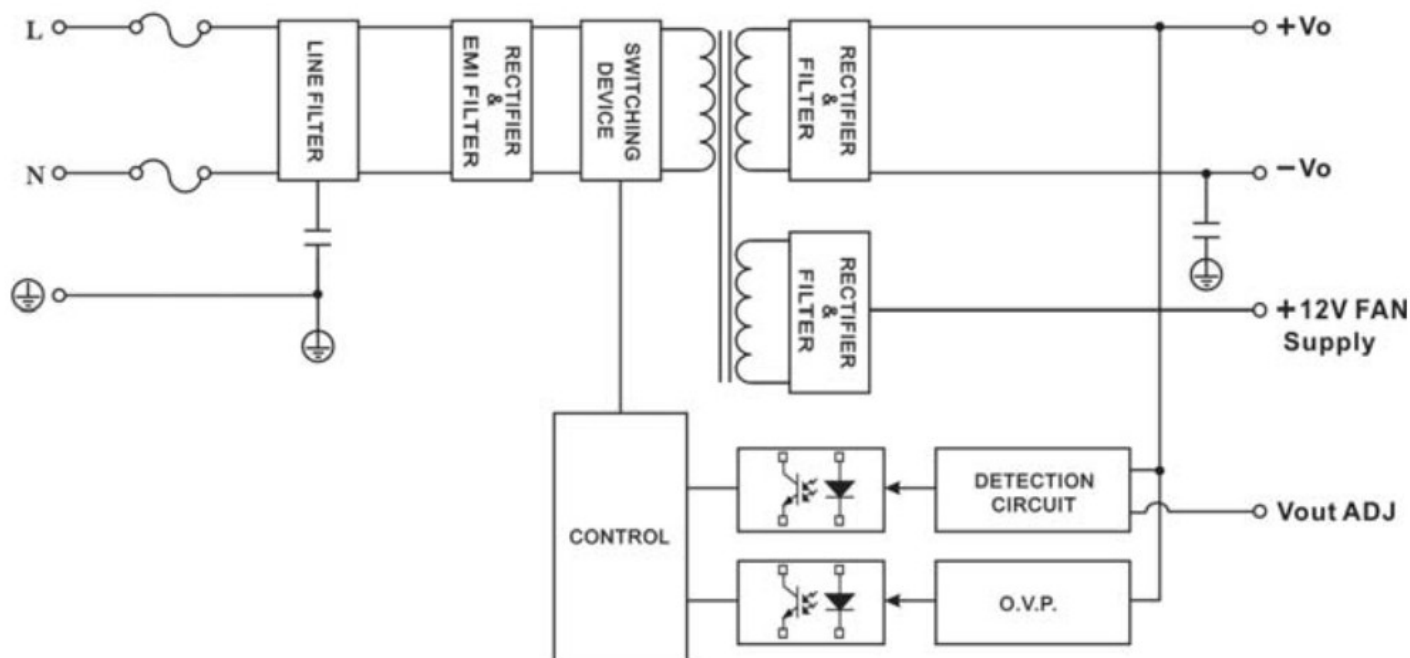
Models and Ratings

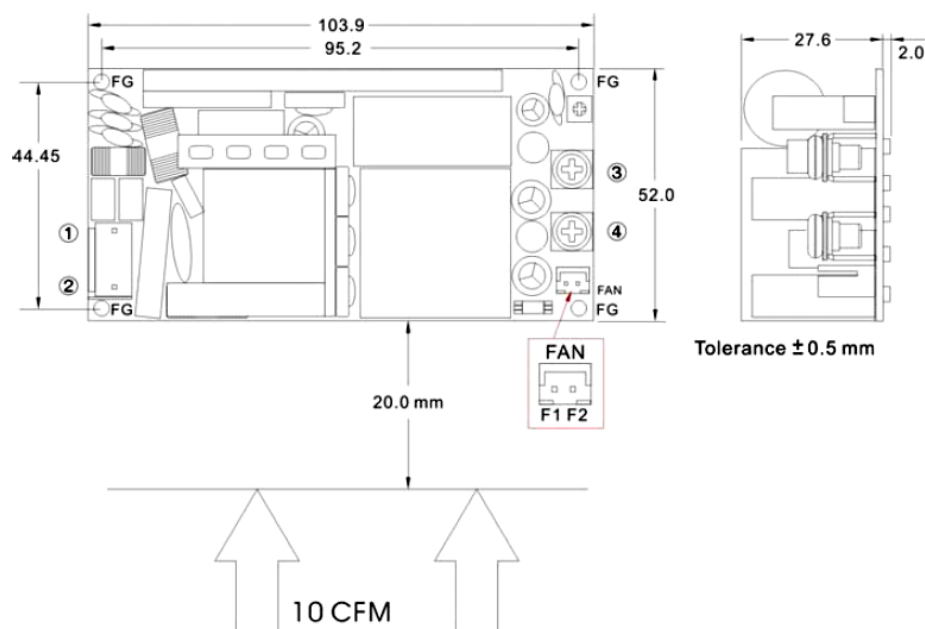
Model	Output Voltage	Max Load Convection	Max Load 10CFM Forced Air	Output Regulation	Ripple & Noise	Efficiency	Fan Output
PDAM240-12A-H	12V	13.33A	20A	+/-2%	120mV	92.5%	12V/0.5A
PDAM240-14A-H	24V	6.67A	10A	+/-2%	240mV	93%	12V/0.5A
PDAM240-18A-H	48V	3.33A	5A	+/-2%	480mV	94%	12V/0.5A

Notes:

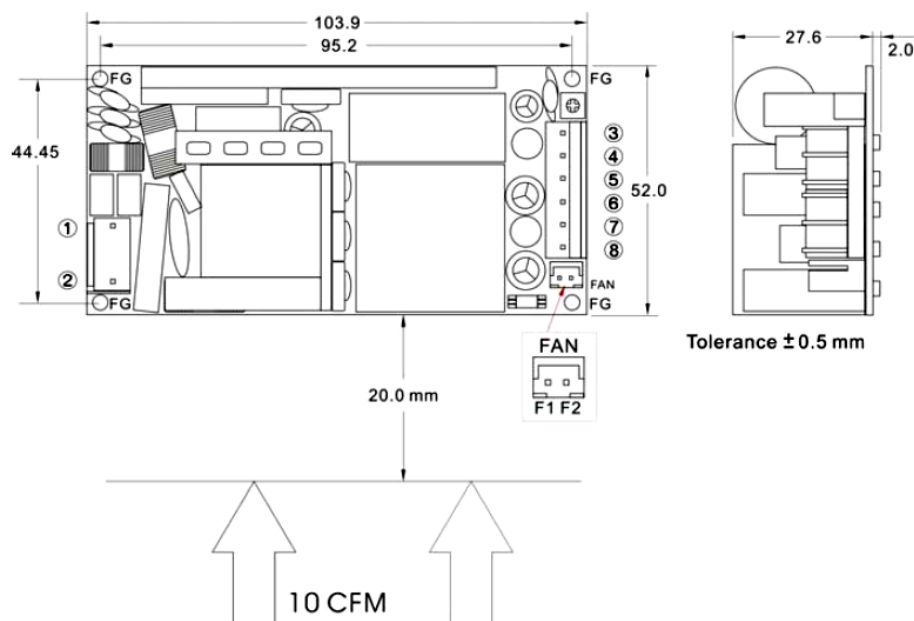
1. All models are available in an enclosed version (e.g. PDAM240-12A would be PDAM240-12C)
2. All models are available with terminal block type output. Remove the -H extension (indicating header type output) when ordering.
3. We strongly recommend conducting isolation testing with a DC voltage.
4. Hold-up Time measured at 90% Vout.
5. Main load must be greater than 50% to drive the fan output.
6. Ripple and noise measured at 20MHz bandwidth with a 47uF electrolytic and 0.1uF ceramic capacitor in parallel with the output, at the DC connector.
7. Please secure the PSU to your assembly using the four mounting holes in the corners for Class I and Class II equipment.

Block Diagram



Mechanical Outline - Terminal Block


For Terminal Block Output, Part Number is PDAM240-XXA. (ex. PDAM240-12A)

Mechanical Outline - Header


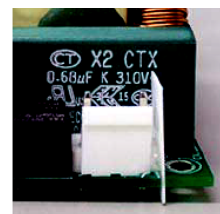
For Header Version, Part Number is PDAM240-XXA-H. (ex. PDAM240-12A-H)



PIN #	Single
1	AC IN (N)
2	AC IN (L)
3	+DC OUT
4	-DC OUT

Connector Pin (FAN)

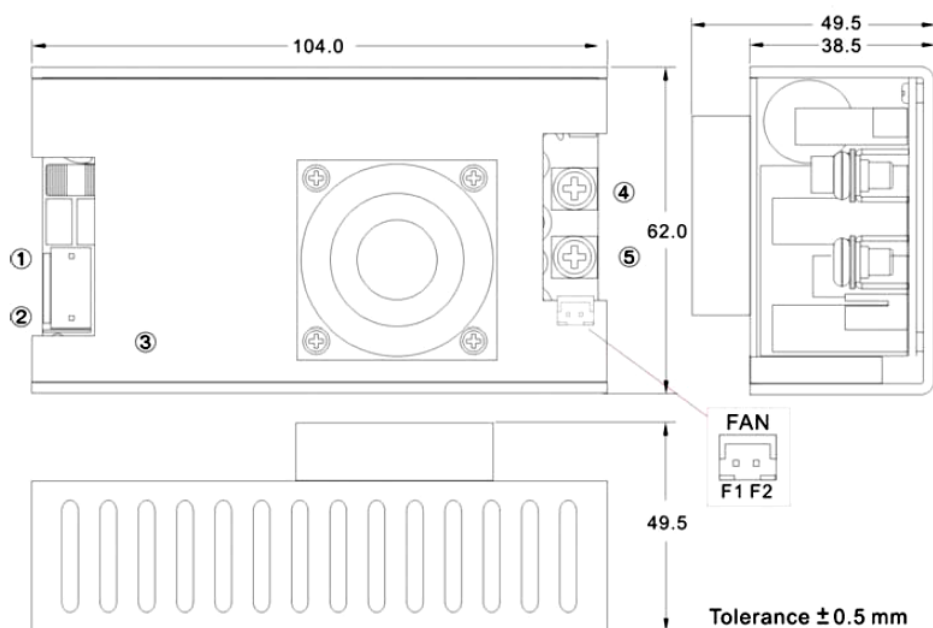
PIN #	Single
F1	+AUX OUT



PIN #	Single
1	AC IN (N)
2	AC IN (L)
3-5	+DC OUT
6-8	-DC OUT

Connector Pin (FAN)

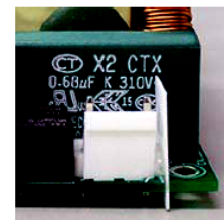
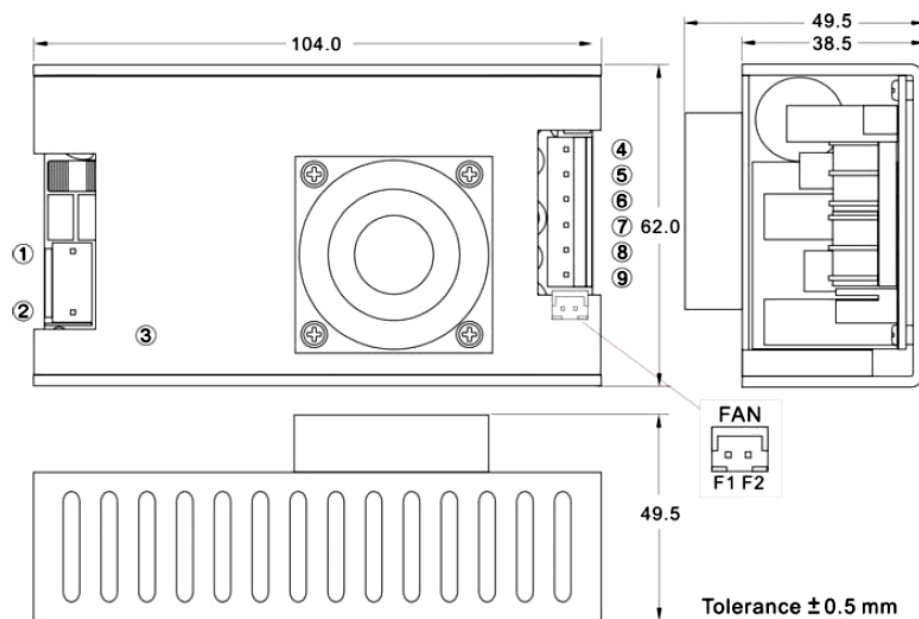
PIN #	Single
F1	+AUX OUT
F2	-AUX OUT

Mechanical Outline (Enclosed Frame Standard Terminal Block)


PIN #	Single
1	AC IN (N)
2	AC IN (L)
3	PF/FG
4	+DC OUT
5	-DC OUT

Connector Pin (FAN)

PIN #	Single
F1	+AUX OUT
F2	-AUX OUT

¹Header Version


PIN #	Single
1	AC IN (N)
2	AC IN (L)
3	PF/FG
4-6	+DC OUT
7-9	-DC OUT

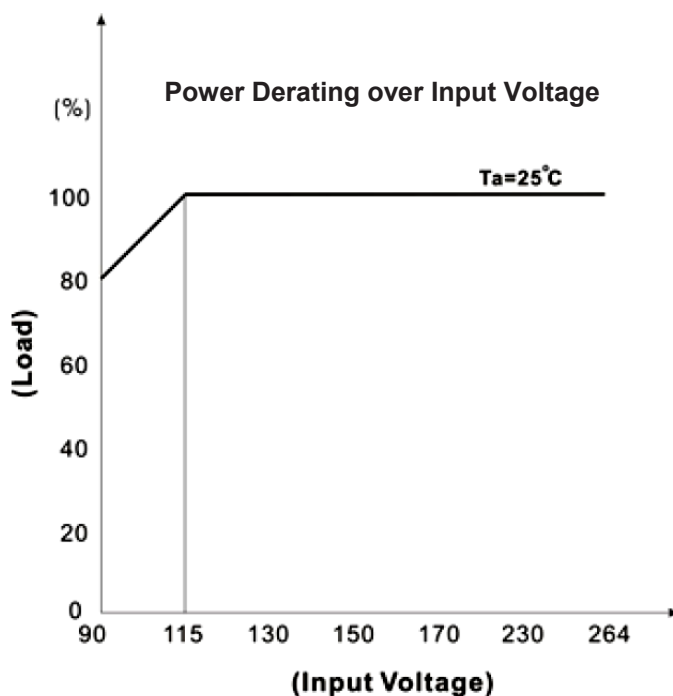
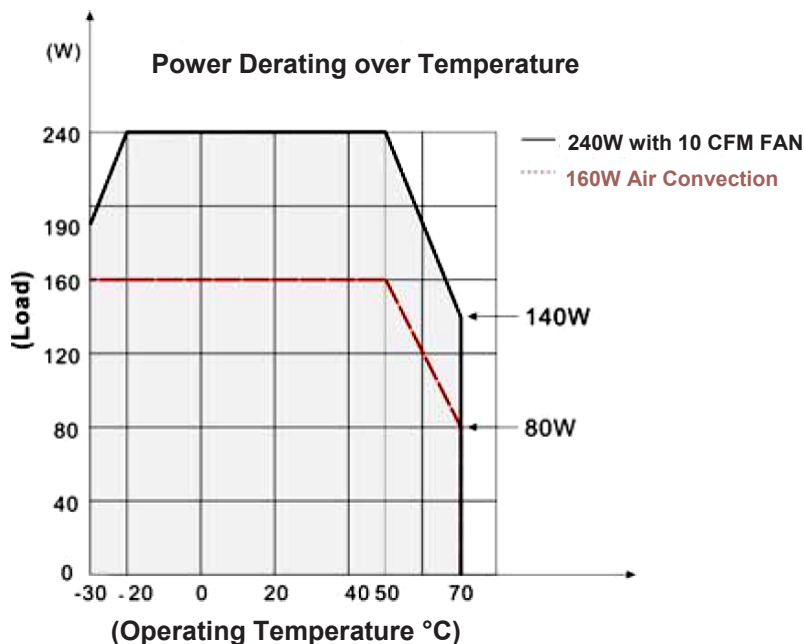
Connector Pin (FAN)

PIN #	Single
F1	+AUX OUT
F2	-AUX OUT

¹ For Header version, part number is PDAM240-XXC-H. (ex. PDAM240-12C-H)



Power Derating Curves



Mouser Electronics

Authorized Distributor

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[PDAM240-18A-H](#) [PDAM240-12A-H](#) [PDAM240-14A-H](#)