



- 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 (V _{out} = 90% V _{nominal})
Efficiency	Up to 94%. See table for details

Minimum Load	No Minimum Load
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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
FCC Class B Radiated & Conducted
EN55011/55022 Class B Radiated &
Conducted (Class A Radiated for Class II
Configuration)

EMC (IEC60601-1-2:2014) :
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 1.087"H
Weight	234g Typical



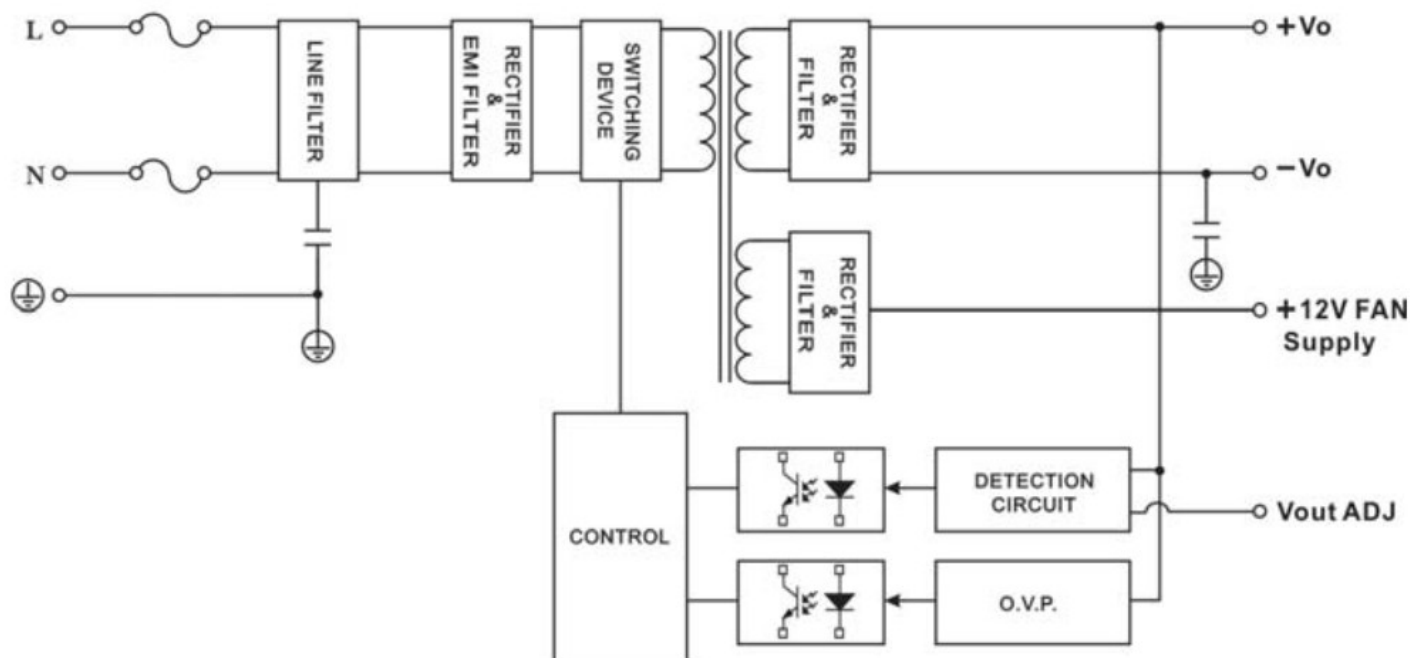
Models and Ratings

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:

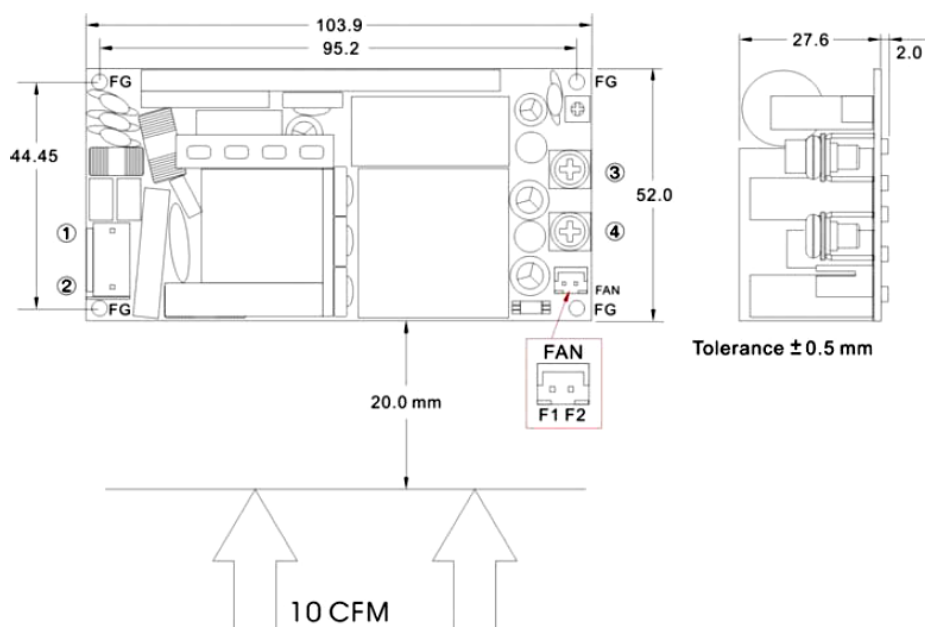
1. All models are available in an enclosed version (e.g. PDAM240-12A would be PDAM240-12C)
2. All models are available with terminal block type output. Remove the -H extension (indicating header type output) when ordering.
3. We strongly recommend conducting isolation testing with a DC voltage.
4. Hold-up 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



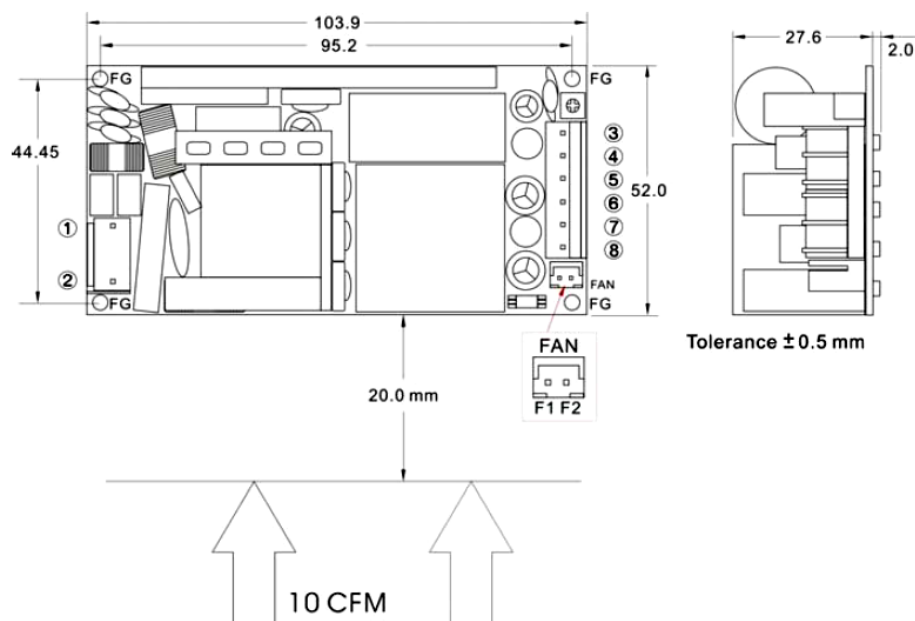


Mechanical Outline - Terminal Block



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

Mechanical Outline - Header



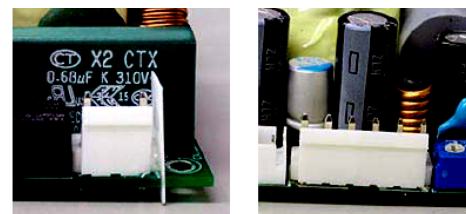
For Header Version, Part Number is PDAM240-XXA-H. (ex. PDAM240-12A-H)



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

Connector Pin (FAN)

PIN #	Single
F1	+AUX OUT



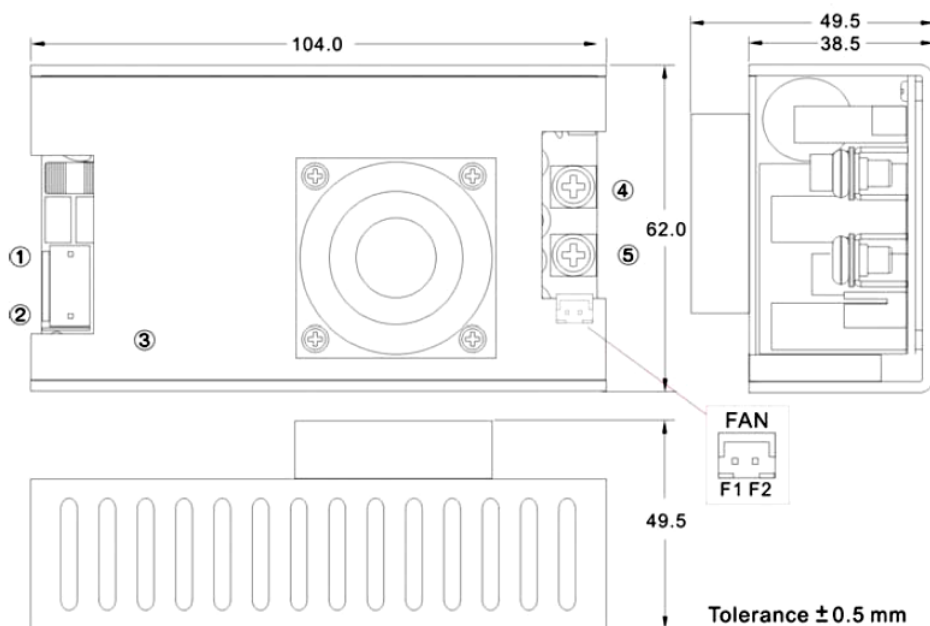
PIN #	Single
1	AC IN (N)
2	AC IN (L)
3-5	+DC OUT
6-8	-DC OUT

Connector Pin (FAN)

PIN #	Single
F1	+AUX OUT
F2	-AUX OUT



Mechanical Outline (Enclosed Frame Standard Terminal Block)

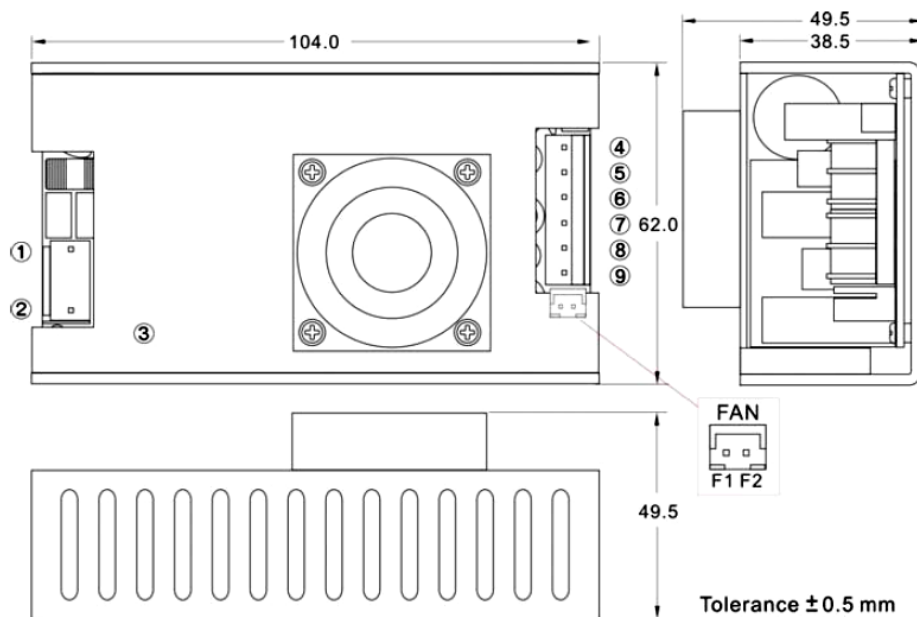


PIN #	Single
1	AC IN (N)
2	AC IN (L)
3	PF/FG
4	+DC OUT
5	-DC OUT

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

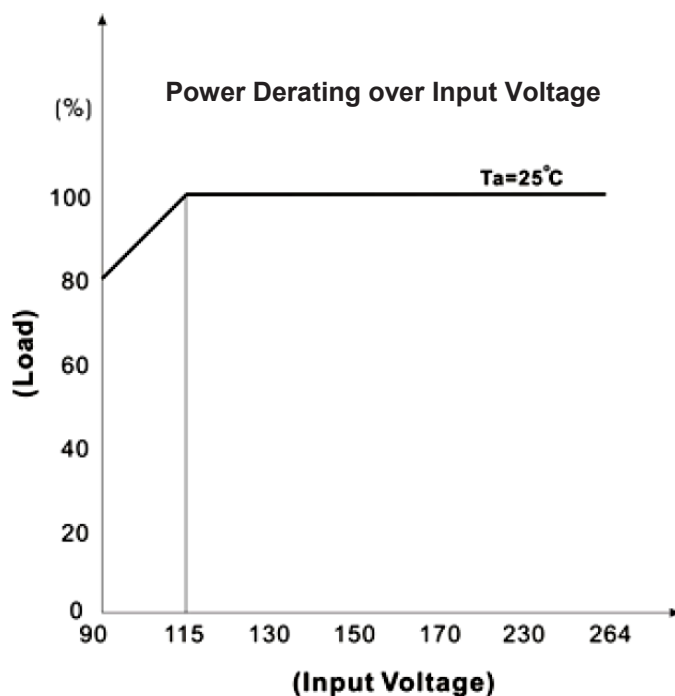
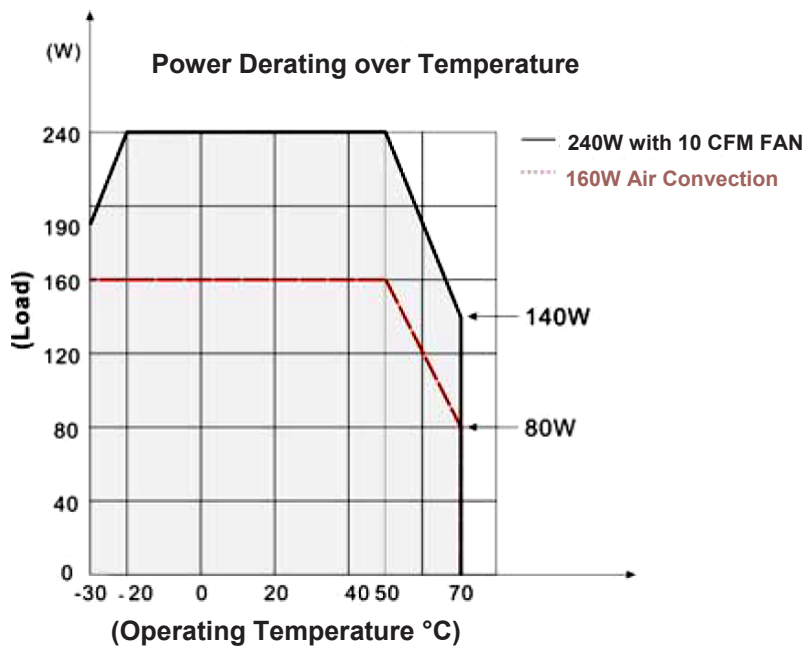
Connector Pin (FAN)

PIN #	Single
F1	+AUX OUT
F2	-AUX OUT

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



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