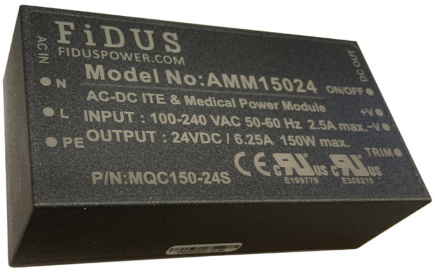
AMM150 SERIES



DIMENSIONS:

AC-DC

150W

4.3 x 2.3 x 1.38"
(109 x 58.5 x 35mm)

2x MOPP	-30 TO 70°C OPERATION	SUITABLE FOR BODY FLOAT APPLICATIONS
IEC 60601-1	EN55011 LEVEL B	UP TO 93.5% EFFICIENCY

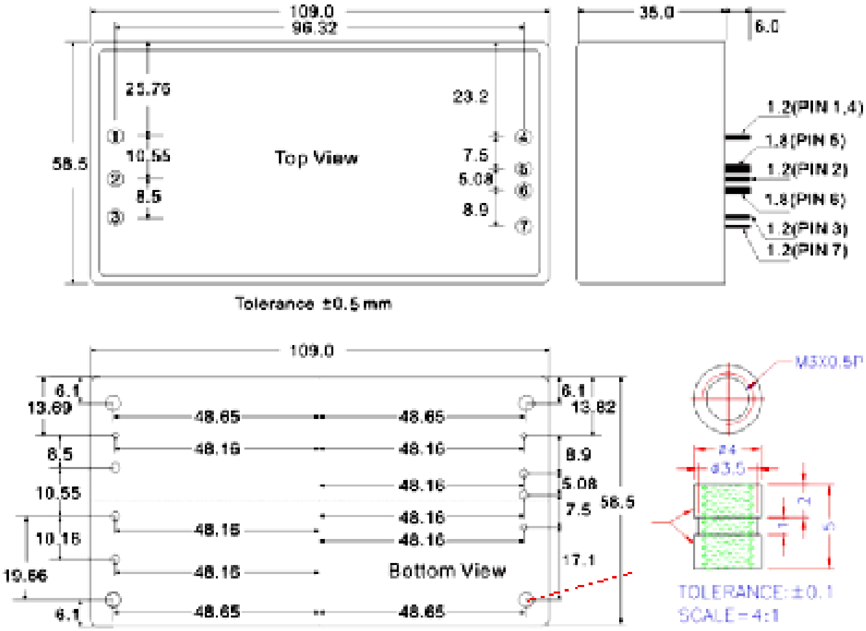
Part numbers

AMM	150	12
Series	Power	Output voltage
		12 = 12VDC 24 = 24VDC 48 = 48VDC

Key specifications

Input range	Safety certification	Efficiency	Enviromental Perfomance
90 - 264VAC	IEC 60601-1 UL 62368-1	<93.5%	-30 to 70°C Operation

Mechanical



Pin	Function
1	AC IN (N)
2	AC IN (L)
3	PE
4	ON/OFF
5	+DC OUT
6	-DC OUT
7	TRIM

Notes
1. All dimensions shown in mm 2. Pin diameter 5&6 1.8 ±0.3mm others 1.2 ±0.3mm

Weight
365g

Trim

Notes
The output voltage can be trimmed by adding resistance between the trim pin and the -Vout pin for trim up and +Vout pin for trim down

	12V	24V	48V
Trim Up	+5% to 0% 34KΩ - 10MΩ	+5% to 0% 37.4KΩ - 10MΩ	+5% to 0% 38KΩ - 10MΩ
Trim Down	+0% to -5% 10MΩ - 106kΩ	0% to -5% 10MΩ - 270kΩ	0% to -5% 10MΩ - 64KΩ

Models & Ratings

Model Number	Output Voltage	Output Power	Output Current	Efficiency	Capacitive Load
AMM15012	12V	150W	12.5A	93%	6000uF
AMM15024	24V	150W	6.25A	93.5%	2000uF
AMM15048	48V	150W	3.125A	93.5%	330uF

1.All specfications at 230VAC, full load at 25°C
2. Panel mount/ DIN rail screw terminal version on request

Input

Parameter	Min	Typical	Max	Unit	Notes/Conditions
Input voltage	90		264	VAC	100% down to 115VAC derating to 80% at 90VAC
Input frequency	47		63	Hz	
Power factor	0.9				EN61000-3-2 class A compliant
Input current	1.25		2.5	A rms	2.5A 115VAC /1.25A at 230VAC
Inrush current	45		90	A	45A at 115VAC and 90A at 230VAC. Cold start at 25°C
No load input power			0.5	W	
Touch current			0.1	mA	264VAC

Output

Parameter	Min	Typical	Max	Unit	Notes/Conditions
Output voltage	12		48	VDC	See Models & Ratings table
Set point accuracy			±2	%	
Line regulation			±1	%	Low line to high line
Load regulation			±1	%	0 to 100% load
Minimum load	0			%	
Ripple and noise			1	% pk-pk	20MHz bandwidth with 0.1uF & 47uF capacitor
Hold up	10			mS	115VAC

Protections

Parameter	Notes/Conditions
Overload	Trip and restart
Short circuit	Trip and restart. High current latch
Over voltage	Trip and restart
Over temperature	Trip and restart

Safety

Parameter	Min	Typical	Max	Unit	Notes/Conditions
Safety standards	IEC/UL 62368-1, IEC 60601-1				
Isolation: Input to output	4000			VAC	2 x MOPP
Isolation: Input to ground	2000			VAC	
Isolation: Output to ground	1500			VAC	

EMC: Immunity

	Standard	Test level	Criteria	Notes/Conditions
ESD	EN61000-4-2	4	A	8kV contact
Radiated	EN61000-4-3	3	A	10V/m
EFT	EN61000-4-4	3	A	2kV Line/Neutral to PE
Surges	EN61000-4-5	3	A	2kV Line/Neutral to PE
Conducted (CS)	EN61000-4-6	2	A	3V rms
PFMF	EN61000-4-8	4	A	30A/m
Voltage dips and interruptions	EN61000-4-11	0% 0.5 periods, 0% 1 periods and 75% 25 periods, 0% 250 periods. A,A,B,B 100V 50Hz, A,A,A,B 240V 50Hz		

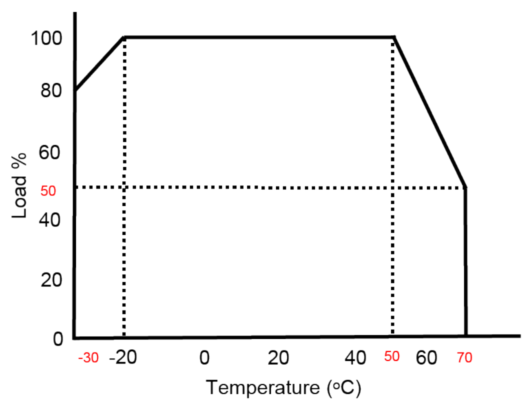
EMC: Emissions

	Standard	Test level	Criteria	Notes/Conditions
Conducted	EN55011	B		
Radiated	EN55011	B		With functional earth connected otherwise level A
Harmonic current	EN61000-3-2	Class A		
Voltage flicker	EN61000-3-3			

Environmental

Parameter	Min	Typical	Max	Unit	Notes/Conditions
Operating temperature	-30		70	°C	See derating curve
Storage temperature	-30		85	°C	
Cooling					Convection cooled
Temperature coefficient			±0.05	%/°C	
Humidity	0		95	% RH	Non-condensing
MBTF	250			KHrs	25°C, MIL-HDBK-217F
Operating altitude			5000	m	
Shock & Vibration	IEC 60068-2-27 and IEC 60068-2-6 (10-500hz, 2G10 min/ cycle, 60min each axis)				

Derating Curve



6th June 2025