



FEATURES:

- 4000VAC I/O Isolation
- Operating temperature: -40 to +80°C
- Over load, Over Voltage, Short Circuit Protection
- Universal input: 90-264VAC, 47-440Hz
- RoHS compliant
- Soft start
- Energy Star compliant
- CE, cULus, CB approvals



Model	Input Voltage (VAC/Hz)	Input voltage (VDC)	Output Voltage (V)	Output Current max (A)	Maximum capacitive Load (µF)	Efficiency (%)
AME15-3.3SMAZ	90-264/47-440	120-370	3.3	3	4700	74
AME15-5SMAZ	90-264/47-440	120-370	5	3	2200	78
AME15-12SMAZ	90-264/47-440	120-370	12	1.25	1000	81
AME15-15SMAZ	90-264/47-440	120-370	15	1	680	81
AME15-24SMAZ	90-264/47-440	120-370	24	0.63	470	83

Models Dual output

Models

Single output

Model	Input Voltage (VAC/Hz)	Input voltage (VDC)	Output Voltage (V)	Output Current max (A)	Maximum Capacitive Load (µF)	Efficiency (%)
AME15-5DMAZ	90-264/47-440	120-370	±5	±1.5	±1000	78
AME15-12DMAZ	90-264/47-440	120-370	±12	±0.63	±470	80
AME15-15DMAZ	90-264/47-440	120-370	±15	±0.5	±330	81

Input Specifications

Parameters	Conditions	Typical	Maximum	Units
Current	115 VAC		350	mA
Current	230 VAC		180	mA
Insuch oursent <2mg (Cold Start)	115 VAC		10	Α
Inrush current <2ms (Cold Start)	230 VAC		20	Α
Lookago ourrent	115 VAC		0.1	mA
Leakage current	264 VAC		0.2	mA
External Fuse (recommend)	slow blow type	2		Α
Input Dissipation	No Load	<0.5		W
Under Voltage Protection		88		VAC

Output Specifications

Conditions	Typical	Maximum	Units
	±2		%
LL-HL	±0.5		%
0-100%	±0.5		%
25% load - 1 st out, 100% load – 2 nd out	±5		%
	200		μs
25% load step	±2		% of Vout
20MHz bandwidth	100		mVp-p
min	20		ms
	LL-HL 0-100% 25% load - 1 st out, 100% load – 2 nd out 25% load step 20MHz bandwidth	±2 LL-HL ±0.5 0-100% ±0.5 25% load - 1 st out, 100% load - 2 nd out ±5 200 25% load step ±2 200Hz bandwidth 100	±2 LL-HL ±0.5 0-100% ±0.5 25% load - 1 st out, 100% load - 2 nd out ±5 200 200 25% load step ±2 20MHz bandwidth 100

*Ripple & Noise measured with 1µF M/C and 47µF E/C

Isolation Specifications

	4000	VAC
>1000		MΩ
	>1000	

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General Specifications

Parameters	Conditions	Typical	Maximum	Units	
Switching frequency		132		KHz	
Start up time		900		mS	
Over load protection	Auto recovery, hiccup mode	>131		%	
Over voltage protection	Zener diode clamp				
Short Circuit protection	Continous				
Short Circuit restart		Auto recovery			
Operating temperature	With derating over 55 °C	ating over 55 °C -40 to +80		°C	
Storage temperature				°C	
Max Case temperature			100	°C	
Temperature coefficient		±0.02		% / °C	
Cooling		Free air convection			
Humidity			95	% RH	
Weight		100		g	
	2.56 x 1.83 x 0.79 inches 65.0 x 46. 5 x 20.1 mm , ±0.5mm				
MTBF	> 4	> 400 000hrs (MIL-HDBK -217F, t=+25°C)			
Case material	Plastic resin + Fiberglass (flammability to UL 94V-0)				

NOTE: All specifications in this datasheet are measured at an ambient temperature of 25°C, humidity<75%, nominal input voltage and at rated output load unless otherwise specified.

Environment Approval

Parameters	Conditions	
Shock	Wave form: Half sine wave	
	Acceleration amplitude: 5gn	
	Bump duration: 30 ms	
	Number of bumps: 18 (3 in each direction for every axis)	
	Converter operation before and after test, body mounted (on chassis)	
	Test mode: Sweep sine	
	10-100Hz, speed 0.05Hz/s	
Vibrations	Displacement: 1mm	
VIDIALIONS	Acceleration: 3g	
	3 loops 30min one cycle, 3h total, every axis tested	
	Converter operation before and after test, body mounted (on chassis)	

Safety & EMC Specifications

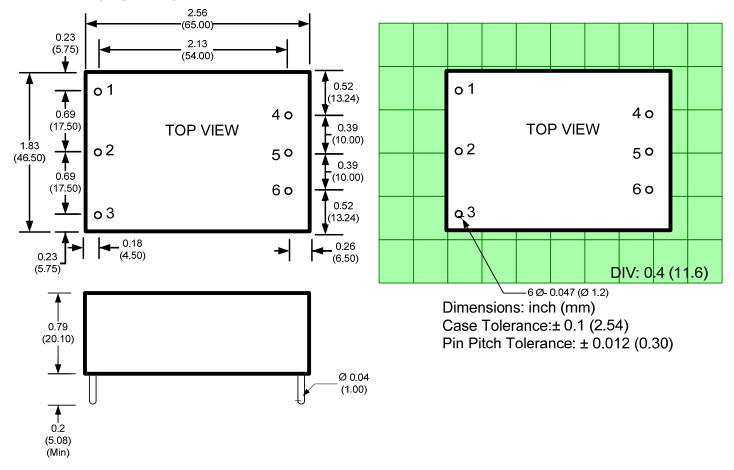
Parameters				
Agency approvals	cULus, CE, CB	cULus, CE, CB		
	Medical Electrical Equipment	IEC\EN\UL 60601-1, CSA-C22.2 No. 601.1-M90		
	Information technology Equipment	EN 60950-1:2006+A11:2009		
	EMI - Conducted and radiated emission	EN55011, class B		
	Harmonic Current Emissions	IEC/EN 61000-3-2, (EN60555-2)		
Standards	Voltage fluctuations and flicker	IEC/EN 61000-3-3, (EN60555-3)		
	Electrostatic Discharge Immunity	IEC 61000-4-2		
	RF, Electromagnetic Field Immunity	IEC 61000-4-3		
	Electrical Fast Transient/Burst Immunity	IEC 61000-4-4		
	Surge Immunity	IEC 61000-4-5		
	RF, Conducted Disturbance Immunity	IEC 61000-4-6		
	Power frequency Magnetic Field Immunity	IEC 61000-4-8		
	Voltage dips, Short Interruptions Immunity	IEC 61000-4-11		



Pin Out Specifications

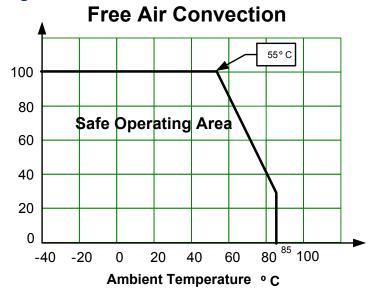
Pin	Single	Dual
1	No pin	No pin
2	AC Input (N)	AC Input (N)
3	AC Input (L)	AC Input (L)
4	-V Output	-V Output
5	No pin	Common
6	+V Output	+V Output

Dimensions (Top View)





Derating



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