Not recommended for new designs

Discontinued

Series AME60-Z

60 Watt | AC-DC Converter

FEATURES:

- RoHS compliant
- Switching power modules for PCB mounting
- Fully encapsulated plastic case
- Universal input: 90-260VAC, 47-63Hz, or 120-370VDC
- Low ripple and noise
- High efficiency
- Regulated output
- CE, cULus approvals

Models

Single output

Model	Input Voltage (VAC/Hz)	Input voltage (VDC)	Max Output wattage (W)	Output Voltage (V)	Output Current max (A)	Ripple & Noise max (mV)	Minimum Load (%)	Efficiency (%)
AME60-5SZ	90-260/47-63	120-370	50	5	10	100	1	76
AME60-12SZ	90-260/47-63	120-370	60	12	5	150	1	80
AME60-15SZ	90-260/47-63	120-370	60	15	4	200	1	80
AME60-24SZ	90-260/47-63	120-370	60	24	2.5	300	1	80

Input Specifications

Parameters	Conditions	Typical	Maximum	Units
Current	115 VAC (full load)		2	A
	230 VAC (full load)		1	A
Inrush current <2ms	115 VAC		20	A
	230 VAC		40	A
Leakage current			3.5	mA

Output Specifications

Parameters	Conditions	Typical	Maximum	Units
Voltage accuracy		±2		%
Line regulation	LL-HL	±1		%
Load regulation	5-100%	±1		%
Maximum capacitive load	Depending of the model	470-23 000		µF
Hold-up time	min	18		ms
Trim		±10		%

Isolation Specifications

Parameters	Conditions	Typical	Maximum	Units
Input - Output		3000		VAC
Input - FG		1500		VAC
Output - FG		500		VAC

General Specifications

Parameters	Conditions	Typical	Maximum	Units
Switching frequency		133		KHz
Over current protection	Auto-recovery	Hiccup technique		
Over voltage protection		Zener diode clamp		
Short circuit protection	Indefinite (auto recovery)			
Operating temperature	See power derating graph	-25 +70		°C
Storage temperature		-40 to +85		°C
Temperature coefficient	0-50 °C	0.02		% / °C
Cooling	Free air convection			
Humidity	Non condensing		95	% RH
Weight		420		g
Dimensions	4.3 x 2.24 x 1.50 inches 109.0 x 57.00 x 39.00 mm			
MTBF	> 130 000 hrs (MIL-HDBK -217F, t=+25°C)			

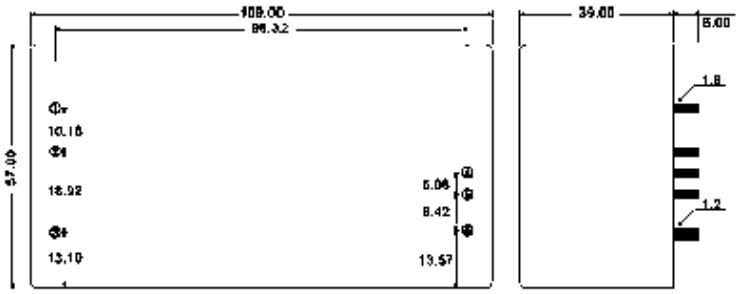
Safety Specifications

Standards	
Safety	EN55022 class A (EMI – Conducted & Radiated Emission), EN 61000-4-2-6
Agency approvals	cULus, CE

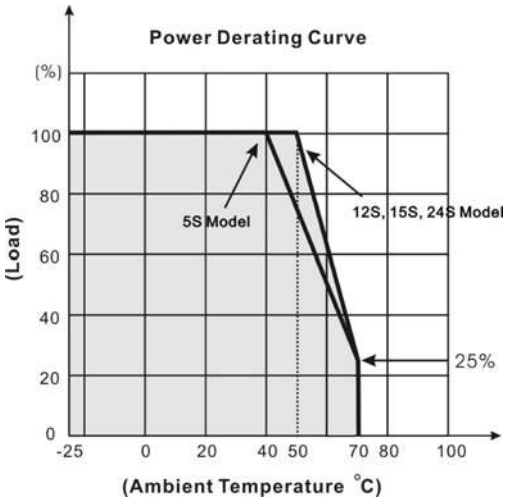
Pin Out Specifications

Pin	Single
1	AC Input (N)
2	AC Input (L)
3	FG
4	+V Output
5	-V Output
6	Trim

Dimensions



Derating



Block Diagram