aimtec
Your Power Partner

Series AMER3/4-KZ

up to 700mA | AC-DC LED driver



FEATURES:

- AC-DC Constant Current LED Driver
- Universal Input: 90-264VAC, 47-63Hz
- Short circuit protection
- RoHS compliant
- Waterproof IP67
- Over current protection
- Over voltage protection
- Low output Ripple

Models

Single output

Model	Max Output Power (W) *	Output Voltage Range (V)	Output Current (mA)	Input Voltage (VAC/Hz)	Efficiency (%)
AMER4-1230KZ	4.2	2 - 12	325 ±25	90-264/ 47-63	60
AMER3-0470KZ	2.9	2 - 4	700 ±30	90-264/ 47-63	60

*** Exceeding the maximum output power will permanently damage the converter**

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.

Input Specifications

Parameters	Conditions	Typical	Maximum	Units
Voltage range		90-264		VAC
Inrush current <2ms	115V	10		A
	220V	20		
Leakage current	230V	0.25		mA
AC current	115V	0.01		A
	220V	0.03		
No-load consumption		0.7		W
External fuse			250V/1.5A	

Output Specifications

Parameters	Conditions	Typical	Maximum	Units
Current accuracy		±10		%
Line regulation	LL-HL	±5		%
Load regulation	2V to 100% load	±10		%
Ripple & Noise	20MHz Bandwidth	100		mV p-p
Hold-up time (min)	100% load	3	5	ms

Isolation Specifications

Parameters	Conditions	Typical	Maximum	Units
Tested I/O voltage	5MA/60S	1500		VAC
Input FG		1500		VAC
Output FG		1500		VAC

General Specifications

Parameters	Conditions	Typical	Maximum	Units
Switching frequency		100		KHz
Over current protection		115		%
Over voltage protection	Zener Diode Clamp			
Short circuit protection	Auto-Recovery			
Operating temperature *		-30 to +55		°C
Temperature Rise		25		°C
Storage temperature		-40 to +80		°C
Temperature coefficient		0.05		% / °C
Cooling	Free Air Convection			
Humidity			95	% RH
Case material	Aluminum			

General Specifications (continued)

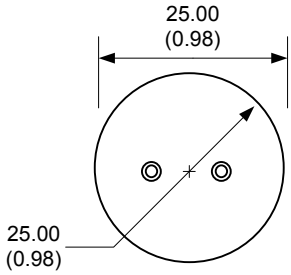
Parameters	Conditions	Typical	Maximum	Units
Weight		22		g
Dimensions (L X H X W)	0.98 x 0.98 x 0.98 inches		25.00 x 25.00 x 25.00 mm	
Switching frequency		100		KHz
MTBF	30 000 hrs (MIL-HDBK-217 F at +25 °C)			

* NOTE: Converters do not have Over Temperature Protection and will be damaged if their maximum case temperature is exceeded.

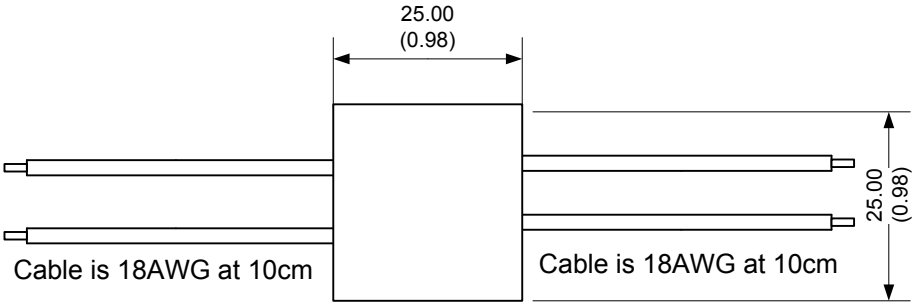
Safety Specifications

Parameters	
Agency approvals	CE
Standards	GB195110.1-2004/IEC61347-1:2003, EN55015, EN61000, EN61547

Dimensions



End View



Side View

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