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### 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

Single outp	ut				ROHS
Model	Max Output Power (W) *	Output Voltage Range (VDC)	Output Current (mA)	Input Voltage (VAC/Hz)	Efficiency (%)
AMER48-48100	0KZ 50.4	30-48	1000 ±50	90-264/ 47-63	85
AMER55-38144	IKZ 57.4	25-38	1440 ±70	90-264/ 47-63	85

#### \* 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	20		٨
	230V	30		A
Leakage current	230V	0.25		mA
AC current	115V	0.50		А
	230V	0.35		
No-load consumption		2.5		W
External fuse			250V/1.5A	

## **Output Specifications**

Parameters	Conditions	Typical	Maximum	Units
Current accuracy		±10		%
Line regulation	LL-HL	±5		%
Load regulation	30Vdc to 100%	±10		%
Ripple & Noise	20MHz Bandwidth	100		mV p-p
Hold-up time (min)	100% load	4	8	ms

### **Isolation Specifications**

Parameters	Conditions	Typical	Maximum	Units
Tested I/O voltage	2mA/60Sec	3000		VAC
Input FG		1500		VAC
Isolation resistance		>50		MΩ

### **General Specifications**

Parameters	Conditions	Typical	Maximum	Units
Switching frequency	100% Load	100		KHz
Over current protection		115		%
Over voltage protection		Zener Diode c	lamp	
Short circuit protection		Continuou	S	
Short Circuit restart		Auto recove	ery	
Operating temperature *		-30 to +55		°C
Maximum case temperature			90	°C
Storage temperature		-40 to +80		°C



# Series AMER48/55-KZ

up to 1440mA | AC-DC LED driver

## **General Specifications (continued)**

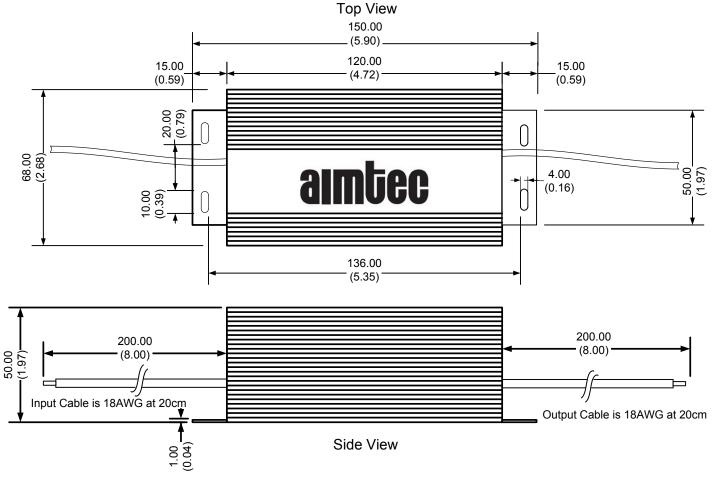
Parameters	Conditions	Typical	Maximum	Units
Temperature coefficient		0.05		% / °C
Cooling		Free Air Conve	ection	
Humidity			95	% RH
Case material		Aluminum	1	
Weight		750		g
Dimensions (L X H X W)	5.90	x 2.68 x 1.97 inches 150.	00 x 68.00 x 50.00 mm	
MTBF	> 50,000 hrs (MIL-HDBK-217 F at +25 °C)			
* NOTE: Convertors do not have Over Temperature Protection and will be demaged if their maximum acce temperature is				

\* 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**



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