



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
- Power Factor Correction



Models Single output

Model	Max Output Power (W) *	Output Voltage Range (VDC)	Output Current (mA)	Input Voltage (VAC/Hz)	Efficiency (%)
AMER48-48100KZ-C1	50.4	30-48	1000 ± 50	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		A
	230V	30		
Leakage current	230V	0.25		mA
AC current	115V	0.50		A
	230V	0.35		
No-load consumption		2.5		W
External fuse			250V/1.5A	
Power Factor		0.95		

Output Specifications

Parameters	Conditions	Typical	Maximum	Units
Current accuracy		±10		%
Line regulation	LL-HL	±5		%
Load regulation	0% to 100%	±10		%
Ripple & Noise	20MHz Bandwidth	150		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 clamp		%
Short circuit protection		Continuous		
Short Circuit restart		Auto recovery		
Operating temperature *		-30 to +55		°C
Maximum case temperature			90	°C
Storage temperature		-40 to +80		°C

General Specifications (continued)

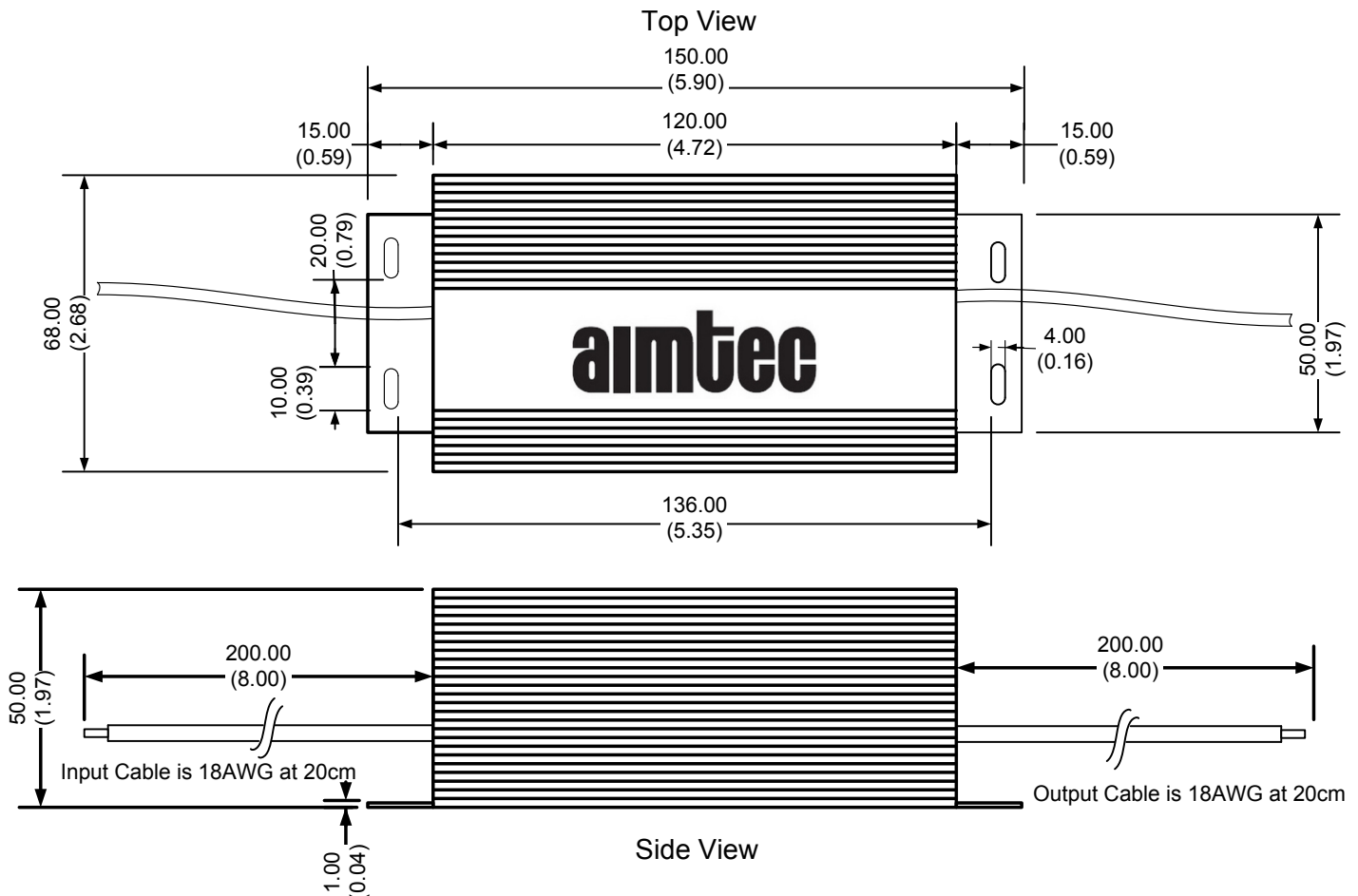
Parameters	Conditions	Typical	Maximum	Units
Temperature coefficient		0.05		% / °C
Cooling		Free Air Convection		
Humidity			95	% RH
Case material		Aluminum		
Weight		750		g
Dimensions (L x H x W)		5.90 x 2.68 x 1.97 inches	150.00 x 68.00 x 50.00 mm	
MTBF		> 50,000 hrs (MIL-HDBK-217 F at +25 °C)		

*NOTE: 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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