



FEATURES:

- AC-DC Constant Current LED Driver
- Power Factor Correction
- Short circuit protection
- RoHS compliant
- Waterproof IP67
- Over current protection
- Over voltage protection



Models
Single output

Model	Max Output Power (W) *	Output Voltage Range (V)	Output Current (A)	Input Voltage (VAC/Hz)	Efficiency (%)
AMER90-30300KZ-C1	94.5	20-30	3 ±0.15	170-250/ 47-63	88
AMER120-30400KZ-C1	120.0	20-30	3.9 ±0.1	170-250/ 47-63	88

* 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		170-250VAC		VAC
Inrush current <2ms	115V	30		A
	230V	40		
Leakage current	230V	0.25		mA
AC current	115V	0.65		A
	230V	0.55		
No-load consumption		2.5		W
External fuse			250V/1.5A	
Power Factor		0.98		

Output Specifications

Parameters	Conditions	Typical	Maximum	Units
Current accuracy		±10		%
Line regulation	LL-HL	±5		%
Load regulation	0% to 100% load	±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	5mA/60Sec	3000	3750	VAC
Input FG		1500		VAC
Isolation resistance		>50		MΩ

General Specifications

Parameters	Conditions	Typical	Maximum	Units
Switching frequency		100		KHz
Over current protection		115		%
Over voltage protection		Zener Diode clamp		
Short circuit protection		Continuous, Auto recovery		
Operating temperature *		-30 to +55		°C
Maximum case temperature			90	°C
Storage temperature		-40 to +80		°C
Temperature coefficient		0.05		% / °C
Cooling		Free air convection		
Humidity			95	% RH

General Specifications (continued)

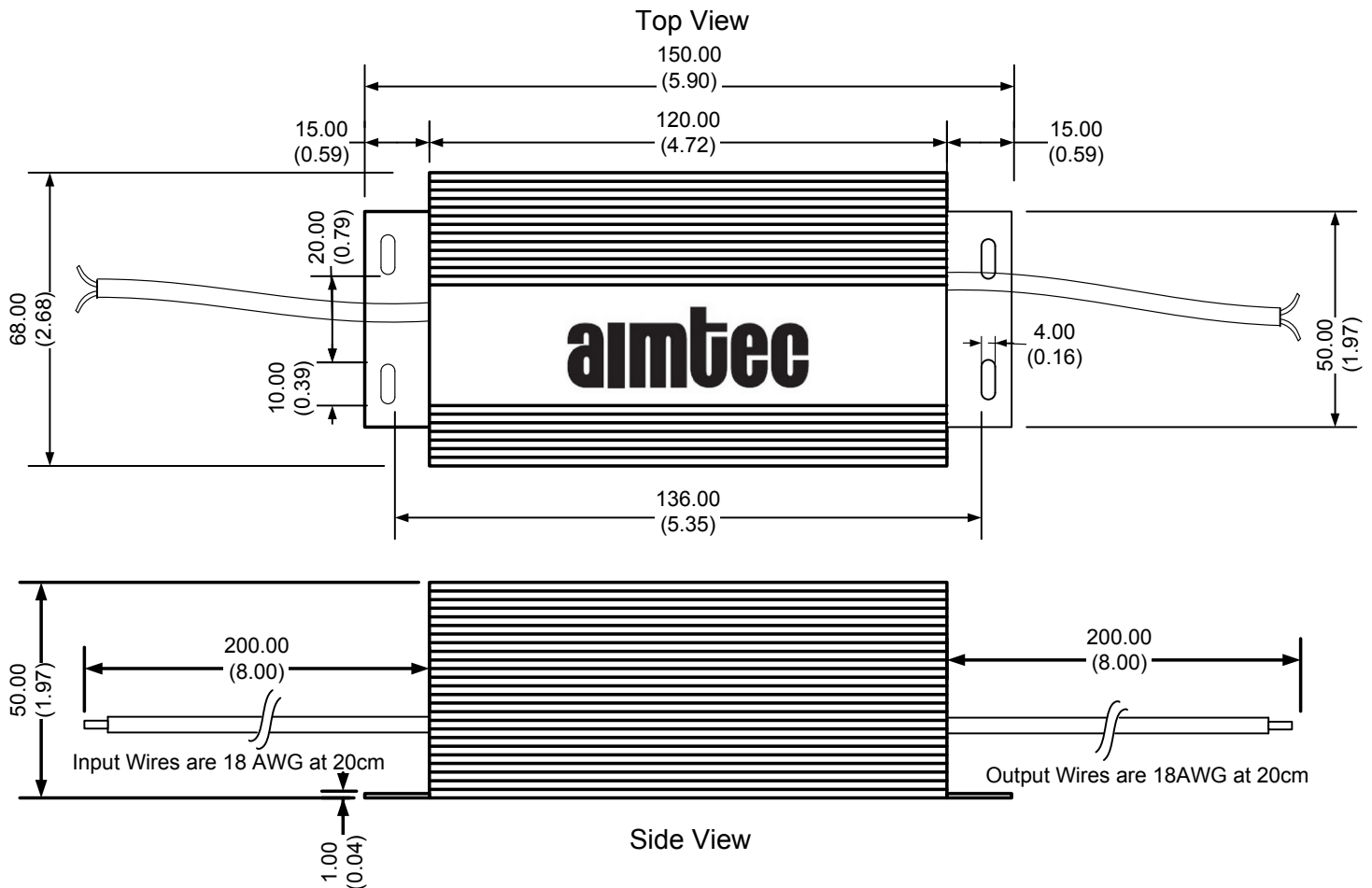
Parameters	Conditions	Typical	Maximum	Units
Case material		Aluminum		
Potting		White epoxy (IP67 rated)		
Wires		UL1015 18AWG *20CM		
Weight		750		g
Dimensions (L X H X W)		5.90 x 2.68 x 1.97 inches	150.00 x 68.00 x 50.00 mm	
MTBF		50,000 hrs (MIL-HDBK-217 F at +25 °C)		

* 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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