



FEATURES:

- AC-DC Constant current LED Driver
- Input range 90-264VAC/47-440Hz
- High Efficiency up to 75%
- Operating temperature 0 to 80°C
- SCP, Over Load Protection
- Waterproof Case rated IP67



Models
Single output

Model	Max Output Power (W) ①	Output Voltage Range (V)	Output Current (A)	Input Voltage (VAC/Hz)	Input Voltage (VDC)	Efficiency (%)
AMEPR5-1630AZ	4.8	8-16	0.3	90-264/47-440	120-370	75
AMEPR5-1435AZ	4.9	6-14	0.35	90-264/47-440	120-370	74
AMEPR5-1236AZ	4.32	5-12	0.36	90-264/47-440	120-370	74
AMEPR5-0670AZ	4.2	2-6	0.7	90-264/47-440	120-370	73
AMEPR5-05100AZ	5	3-5	1	90-264/47-440	120-370	72

① 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
Inrush current <2ms	115VAC	15		A
	230VAC	30		
Leakage current	115VAC	0.2		mA
	230VAC	0.25		
AC current	115VAC	0.09		A
	230VAC	0.06		
External fuse			250V/0.5A	
Start up time		150		ms

Output Specifications

Parameters	Conditions	Typical	Maximum	Units
Current accuracy		±5		%
Line regulation	LL-HL	±5		%
Load regulation	0-100% load	±10		%
Ripple & Noise ②	20MHz Bandwidth	100		mV p-p
Hold-up time		7		ms
Minimum Load Voltage	See the models table			

② Tested with 0.1µF (M/C) or (C/C) and 220µF (E/C) parallel capacitors at the end.

Isolation Specifications

Parameters	Conditions	Typical	Maximum	Units
Tested I/O voltage	3sec		3000	VAC
Isolation Resistance		>1000		MΩ

General Specifications

Parameters	Conditions	Typical	Maximum	Units
Switching frequency		65		KHz
Over Load protection		110		%
Over voltage protection		110		%
Short circuit protection		Continuous		
Short circuit restart		Auto recovery		

General Specifications (continued)

Parameters	Conditions	Typical	Maximum	Units
Operating temperature	With derating over 55°C	0 to +80		°C
Maximum case temperature			100	°C
Storage temperature		-40 to +95		°C
Temperature coefficient		±0.02		% / °C
Cooling	Free air convection			
Humidity			95	% RH
Case material	Plastic			
Potting	Epoxy (IP67 rated)			
Wires	UL1015 22AWG * 10CM			
Weight		22		g
Dimensions (L X H X W)		26.5 x 29 x 26.5mm		
MTBF		>400,000 hrs (MIL-HDBK-217F at +25°C)		

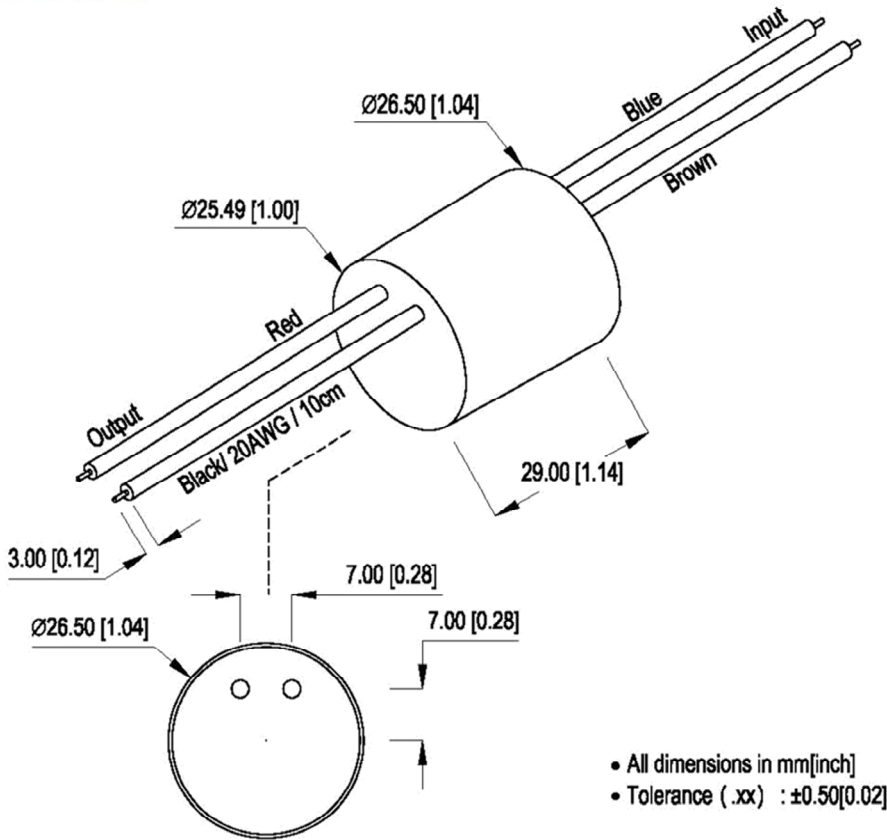
Environment Approval

Test	Parameters	Conditions
Shock	Wave form	Half sine wave
	Acceleration amplitude	5gn
	Bump duration	30ms
	Converter operation	Before and after test, body mounted (on chassis)
	Number of bumps	18 (3 in each direction for every axis)
Vibration	Test mode	Sweep sine, 10-100Hz, speed 0.05Hz/s
	Displacement	1 mm
	Acceleration	3g, 3 loops 30min one cycle, 3h total, every axis tested
	Converter operation	Before and after test, body mounted (on chassis)

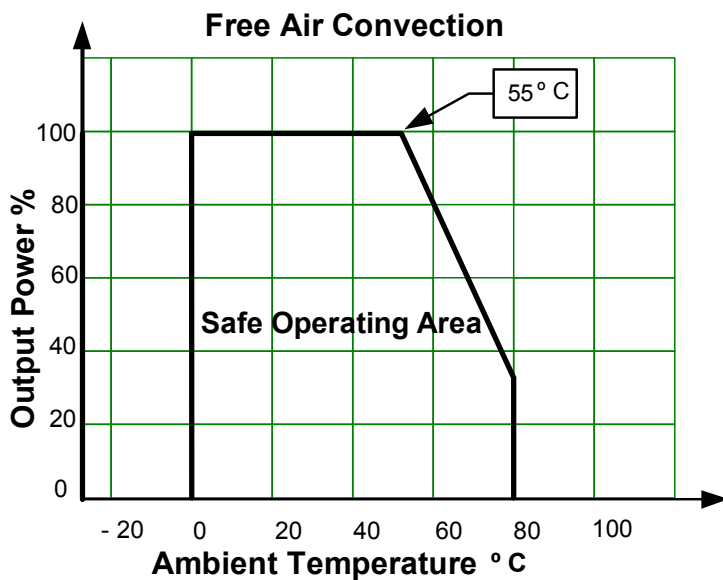
Safety Specifications

Parameters	
Agency approvals	cULus, CE (all pending)
Standards	EN61347-1, EN61347-2-13, IEC62384, UL8750, UL60950-1, EN55015 FCC part 15 Subpart B, CLASS B, ANSI C63.4 :2003 EN 61000-3-3 EN 61000-4-2 EN 61000-4-3 EN 61000-4-4 EN 61000-4-5 EN 61000-4-6 EN 61000-4-8 EN 61000-4-11

Dimensions



Temperature Graph



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