

AMER72N-Z



Click to  
**ORDER**  
samples

Encapsulated, IP67

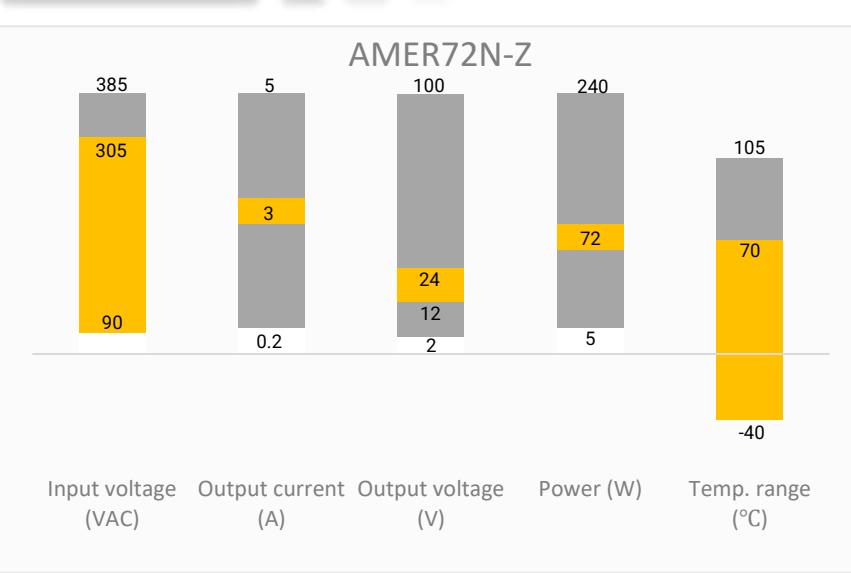
## Features



- Accurate Constant Current Output  $\pm 5\%$
- Active Power Factor Correction
- IP67 design for indoor/outdoor
- Short Circuit, Over Voltage, Over Temperature Protection
- High Efficiency: Up to 89%



## Summary



## Training



Product Training Video  
(click to open)

## Applications



Press Release

Coming Soon!

Application Notes



Lighting

## Models & Specifications



Single Output						
Model	Max Output Power (W)	Output Voltage Range (V)	Output Current (A)	Input Voltage (VAC/Hz)	Efficiency 115/230/277VAC (%) typ.	
AMER72N-24300Z	72	12-24	3	90-305/47-63	86	88.5
					89	

Input Specification				
Parameters	Conditions	Typical	Maximum	Units
Input Current	90 VAC, full load		1.1	A rms
Inrush current	230 VAC, cold start		60	A
Leakage current			0.25	mA
Power Factor	115 VAC, full load	0.96		
	230 VAC, full load	0.92		
	277 VAC, full load	0.88		
Input Fuse	3.15A / 300V			
Start-up Time	230 VAC		1.1	Sec.

Output Specification				
Parameters	Conditions	Typical	Maximum	Units
Current accuracy	Full range		±5	%
Line regulation	LL to HL		±3	%
Load regulation	Full load		±3	%
Ripple & Noise	Full load		200	mV

Isolation Specification				
Parameters	Conditions	Typical	Maximum	Units
Isolation voltage	Input – Output	3750		VAC
	Input – Frame ground	2000		
	Output – Frame ground	500		
Resistance	500Vdc 70%RH	>100		MΩ

General Specifications				
Parameters	Conditions	Typical	Maximum	Units
Over voltage protection	Auto Recovery		25.2	V
Short circuit protection		Continuous, Current limiting		
Short circuit restart		Auto Recovery		
Operating temperature	See derating	-40 to +70	°C	
Storage temperature		-40 to +85	°C	
Temperature coefficient			0.03	% / °C

Cooling	Free Air Convection		
Humidity		90	% RH
IP Rating	IP67		
Dimensions (L X W X H)	7.28 x 1.91 x 1.31 inches 184.9 x 48.6 x 33.3 mm		

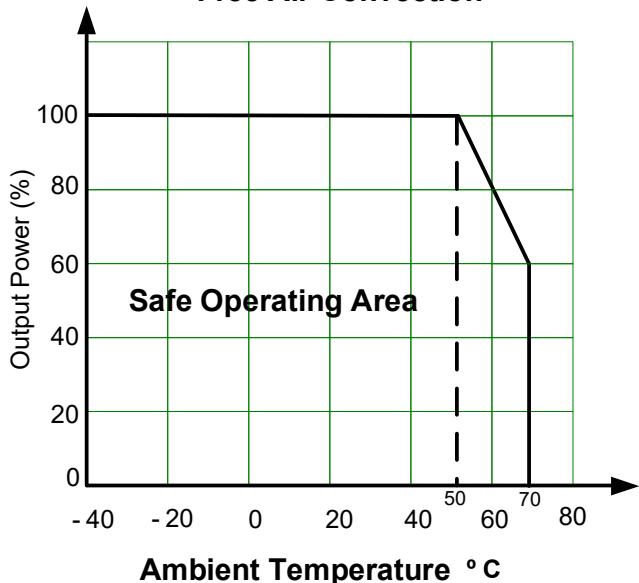
All specifications in this datasheet are measured at an ambient temperature of 25°C, humidity<75%, nominal input voltage and at rated output load unless otherwise specified.

Safety Specifications	
Parameters	
Standards	Design to meet IEC/UL/EN60950
	EMI – Conducted and radiated emission
	Harmonic Current Emissions
	Voltage fluctuations and flicker
	Electrostatic Discharge Immunity
	RF, Electromagnetic Field Immunity
	Electrical Fast Transient / Burst Immunity
	Surge Immunity
	RF, Conducted Disturbance Immunity
	Power frequency Magnetic Field Immunity
	Voltage dips, Short Interruptions Immunity
	Electromagnetic Immunity Requirements Applies to Lighting Equipment

## Derating



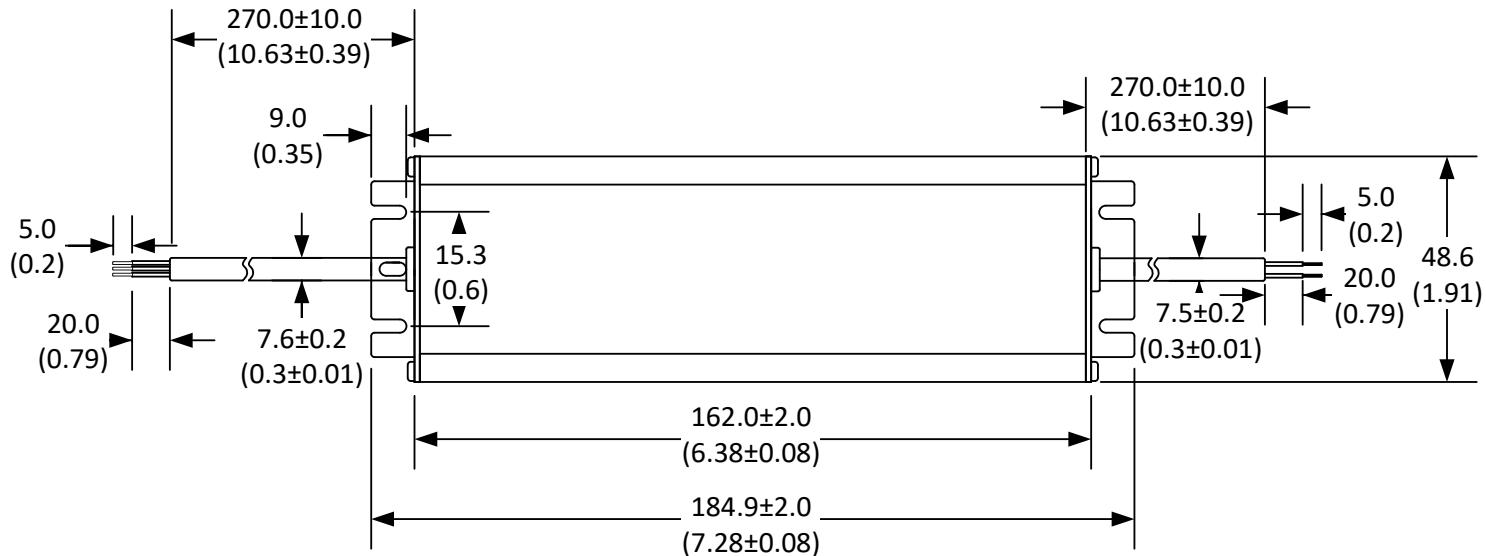
### Free Air Convection



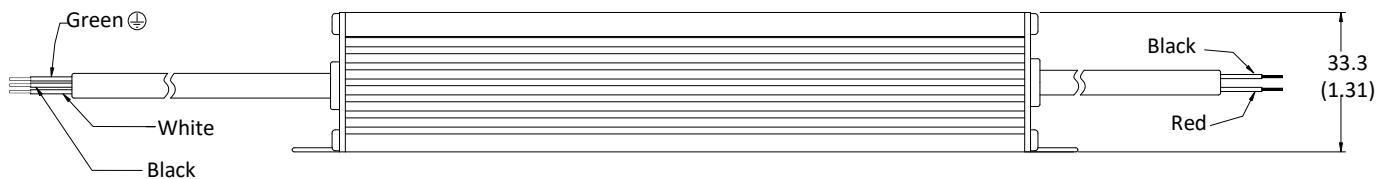
## Dimensions



### Top View



### Side View



Pin Out Specifications	
Pin	Single
AC-N	White Color, Wire Gauge #18
AC-L	Black Color, Wire Gauge #18
FG	Green Color, Wire Gauge #18
Vo+	Red Color, Wire Gauge #18
Vo-	Black Color, Wire Gauge #18

**NOTE:** 1. Datasheets are updated as needed and as such, specifications are subject to change without notice. Once printed or downloaded, datasheets are no longer controlled by Aimtec; refer to [www.aimtec.com](http://www.aimtec.com) for the most current product specifications. 2. Product labels shown, including safety agency certifications on labels, may vary based on the date manufactured. 3. Mechanical drawings and specifications are for reference only. 4. All specifications are measured at an ambient temperature of 25°C, humidity<75%, nominal input voltage and at rated output load unless otherwise specified. 5. Aimtec may not have conducted destructive testing or chemical analysis on all internal components and chemicals at the time of publishing this document. CAS numbers and other limited information are considered proprietary and may not be available for release. 6. This product is not designed for use in critical life support systems, equipment used in hazardous environments, nuclear control systems or other such applications which necessitate specific safety and regulatory standards other the ones listed in this datasheet. 7. Warranty is in accordance with Aimtec's standard Terms of Sale available at [www.aimtec.com](http://www.aimtec.com).