

FEATURES:

- Universal Input: 90~264 Vac •
- High Efficiency: Up to 86%
- Active Power Factor Correction
- Short Circuit / Open Circuit Protection •
- Meet UL, CE Safety Requirement
- Long Life, High reliability •
 - Ultra-low ripple without flickering
- 3-year limited warranty •

Models	
Single output	

Models Single output					CE 🦉
Model	Max Output Power (W)	Output Voltage Range (V)	Output Current (mA)	Input Voltage (VAC/Hz)	Efficiency (%)
AMEPR60N-42140Z	58.8	24-42	1400	90-264/47-63	86

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
Input Current	90 VAC, full load		0.86	Arms
Inruch ourrent 2mg	115 VAC, cold start		40	Α
Inrush current <2ms	230 VAC, cold start		60	
Leakage current			0.75	mA
Input dissipation	No Load		1.5	W
	Output Short		5.0	W
Power Factor	115 VAC, full load		0.98	
Fower Factor	230 VAC, full load	0.95		
Input Fuse		2A/250V		
Start up Time	115 VAC, full load		1.5	Sec.
Start-up Time	230 VAC, full load		1.0	Sec.

Output Specifications

Parameters	Conditions	Typical	Maximum	Units
Current accuracy		±5		%
Line regulation	LL to HL	±3		%
Load regulation	Full Output Voltage Range	±5		%
Ripple & Noise			200	mV p-p
Output Current Ripple	Full load		70	mA
Current Overshoot	LL to HL, full load at cold start, % of rated output current		15	%
Hold-up time (min)			0.5	ms
Minimum Load Voltage	See Mo	dels Table Above		

Isolation Specifications

Parameters	Conditions	Typical	Rated	Units
Tested I/O voltage			3750	VAC
Isolation Resistance	500Vdc	>100		MΩ
Isolation Capacitance		100		pF

General Specifications

Parameters	Conditions	Typical	Maximum	Units
Switching frequency			150	KHz
Over voltage protection			50	V
Short circuit protection	Continuous, Hiccup Mode			
Short circuit restart	Auto Recovery			
Open circuit protection		Continuous, Hiccup Mode		



Series AMEPR60N-Z

up to 1400mA | AC-DC LED driver

Operating temperature	Without Derating -40 to +50					
Maximum case temperature		90		°C		
Storage temperature		-40 to +85		°C		
Temperature coefficient		0.03				
Cooling		Free Air Convection				
Humidity	90					
Case material	Plastic					
IP Rating	IP54					
Weight	260					
Dimensions (L X W X H)	6.30 x 1.73 x 1.22 inches 160.00 x 44.00 x 41.00 mm					
MTBF	>300,000 hrs (MIL-HDBK-217F at +25°C)					

Safety Specifications

Parameters		
	Electromagnetic Interference	EN55015 / FCC Part 15, Class B
	Harmonic Current Emissions	EN61000-3-2, Class B
	Voltage fluctuations and flicker	EN61000-3-3
	Electrostatic Discharge Immunity	EN61000-4-2, 8kV Air, 4kV Contact, Level 3, Criteria A
	RF, Electromagnetic Field Immunity	EN61000-4-3, Test-RS Level 3, Criteria A
Standards	Electrical Fast Transient / Burst Immunity	EN61000-4-4, Burst EFT Level 3, Criteria A
Stanuarus	Surge Immunity	EN61000-4-5, Line to Neutral 4kV, Neutral to FG 6kV
	RF, Conducted Disturbance Immunity	EN61000-4-6. Test-CS Level 3, Criteria A
	Power frequency Magnetic Field Immunity	EN61000-4-8, Test 3A/m, Criteria A
	Voltage dips, Short Interruptions Immunity	EN61000-4-11, Criteria B
	Electromagnetic Immunity Requirements Applies to Lighting Equipment	EN61547

Pin Definition

Pin	Specification / Termination	
AC-N	Blue Color, Wire Gauge #18	
AC-L	Brown Color, Wire Gauge #18	
LED+	The central pin of DC5521 Plug, Connected to the internal red wire	
LED-	The external Cylinder pin of DC5521 Plug, Connected to internal black wire	

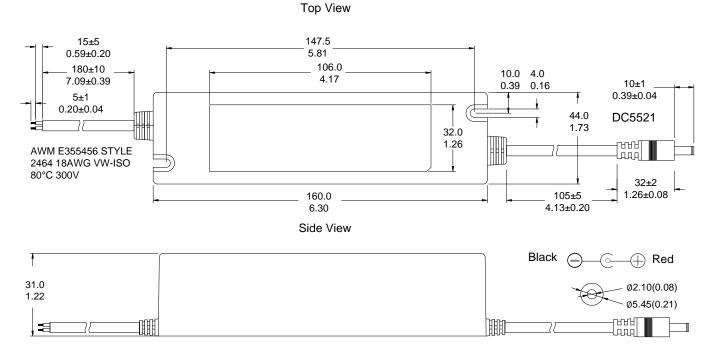
Block diagram



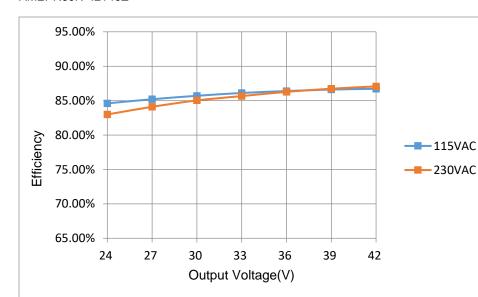


Series AMEPR60N-Z up to 1400mA | AC-DC LED driver

Dimensions



Efficiency Vs. Input Voltage & Output Load Voltage

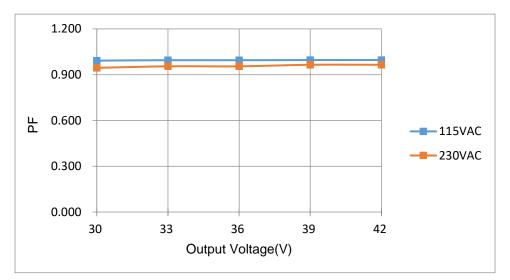


AMEPR60N-42140Z



PF vs. Input Voltage & Output Load Voltage

AMEPR60N-42140Z



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