

36 Watts

- Energy Efficiency Level VI
- European CoC Tier 2
- <0.075 W Standby Power
- Single Outputs 5 to 48 V
- Class II
- -20 °C to 60 °C Operation
- Universal Input
- 3 Year Warranty



Dimensions:

AEJ36:

4.37 x 2.01 x 0.78" (111.0 x 51.0 x 20.0 mm)

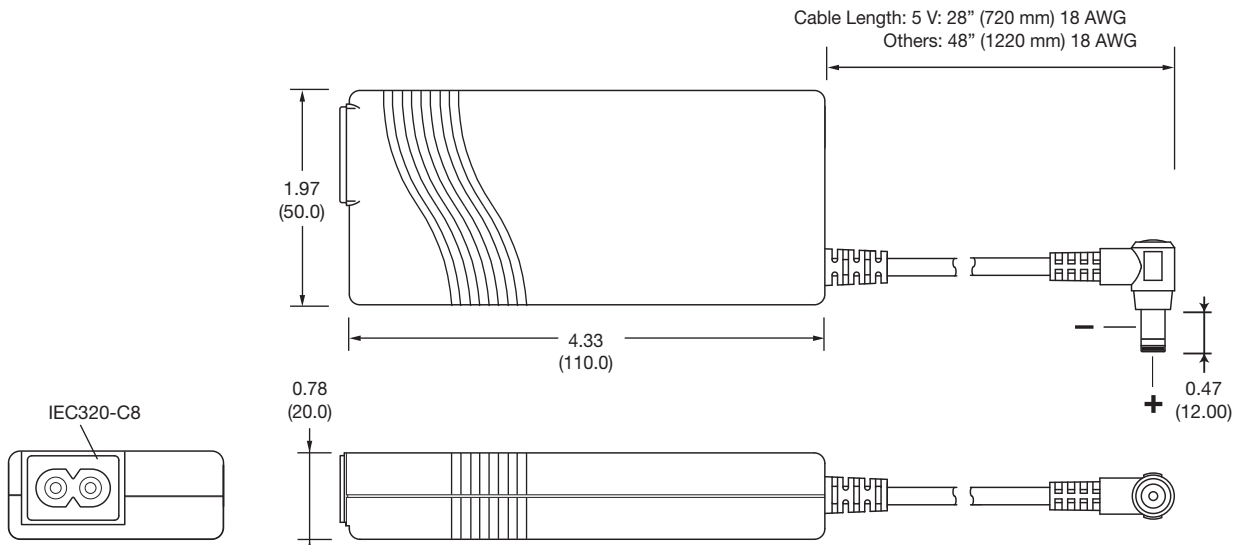
Models & Ratings

Output Power	Output Voltage	Output Current	Total Regulation	Efficiency ⁽¹⁾	Model Number
20 W	5.0V	4.00 A	±5%	83.6%	AEJ36US05
27 W	9.0V	3.00 A		87.3%	AEJ36US09
30 W	12.0V	2.50 A		87.7%	AEJ36US12
36 W	15.0V	2.40 A		88.3%	AEJ36US15
	18.0V	2.00 A		88.3%	AEJ36US18
	24.0V	1.50 A		88.3%	AEJ36US24
	48.0V	0.75 A		88.3%	AEJ36US48

Notes

1. Typical average of efficiencies measured at 25%, 50%, 75% and 100% load and 230 VAC input.

Mechanical Details



Notes

1. All dimensions shown in inches (mm).
2. Weight: 0.38 lbs (190 g) approx.
3. Tolerance is ±0.02 (±0.5) maximum, except output cable length which is ±2" (±50 mm)
4. Output connector is 5.5 mm dia. outer barrel, inner dia. is 2.5 mm with a center + and outer shell - polarity.

Input

Characteristic	Minimum	Typical	Maximum	Units	Notes & Conditions
Input Voltage	90		264	VAC	
Input Frequency	47		63	Hz	
Input Current		1.0		A	Measured at 100VAC
Inrush Current			60	A	230 VAC, cold start at 25 °C
No Load Input Power			0.075	W	
Input Protection	T2.0A/250 VAC internal fuse in line				

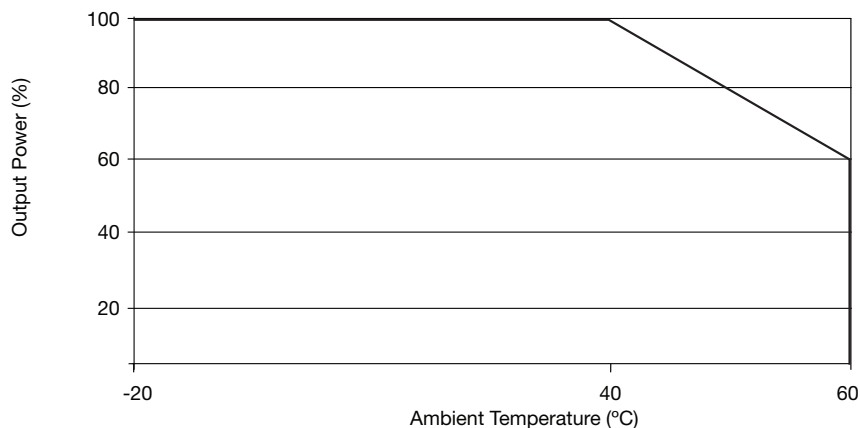
Output

Characteristic	Min.	Typ.	Max.	Units	Notes & Conditions
Output Voltage	5		48	VDC	See Models and Ratings table
Initial Set Accuracy			±2	%	At 60% load
Minimum Load					No minimum load required
Start Up Delay			3	s	
Start Up Rise Time			20	ms	
Hold Up Time		8		ms	Full load and 115 VAC
Line Regulation			±1	%	
Total Regulation			±6	%	
Transient Response			5	%	Maximum deviation, recovering to less than 1% within 500 µs for 25% step load
Ripple and Noise			1	% pk-pk	Measured with 20 MHz Bandwidth and 10 µF electrolytic in parallel with 0.1 µF ceramic capacitor.
Overshoot		5		%	At turn on / turn off
Overload Protection	115		210	%	
Overvoltage Protection	117		143	%	Auto recovery
Short Circuit Protection	Trip and restart (hiccup), auto resetting				
Temperature Coefficient		0.05		%/°C	

Environmental

Characteristic	Minimum	Typical	Maximum	Units	Notes & Conditions
Operating Temperature	-20		+60	°C	Derate from 100% load at 40 °C to 60% load at 60 °C
Cooling	Natural convection				
Operating Humidity	5		90	%RH	Non-condensing
Storage Temperature	-20		+85	°C	
Operating Altitude			2000	m	
Shock	IEC68-2-27, 30 g, 11 ms half sine, 3 times in each of 6 axes				
Vibration	IEC68-2-6, 10-500 Hz, 2 g 10 mins/sweep, 60 mins for each of 3 axes				

Derating Curve

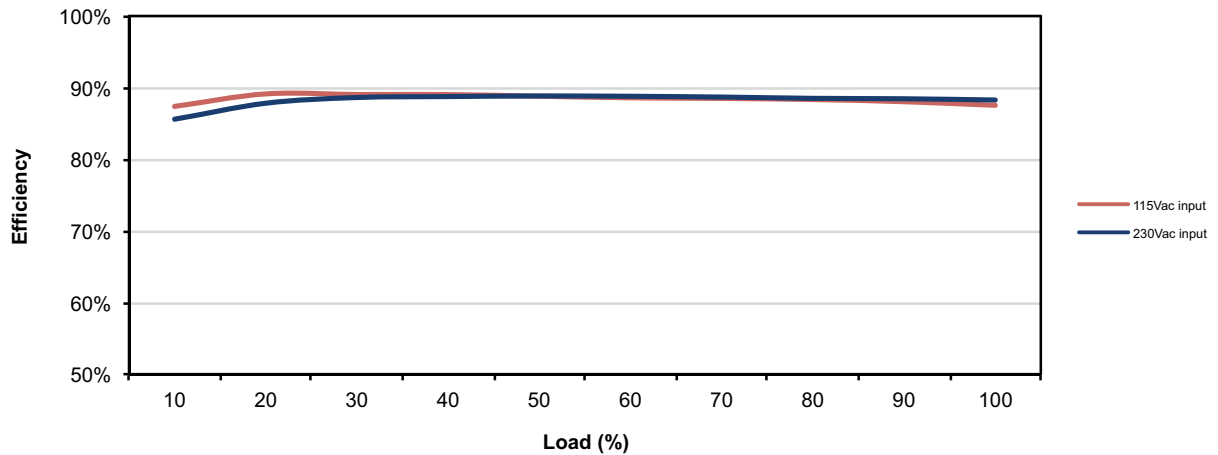


General

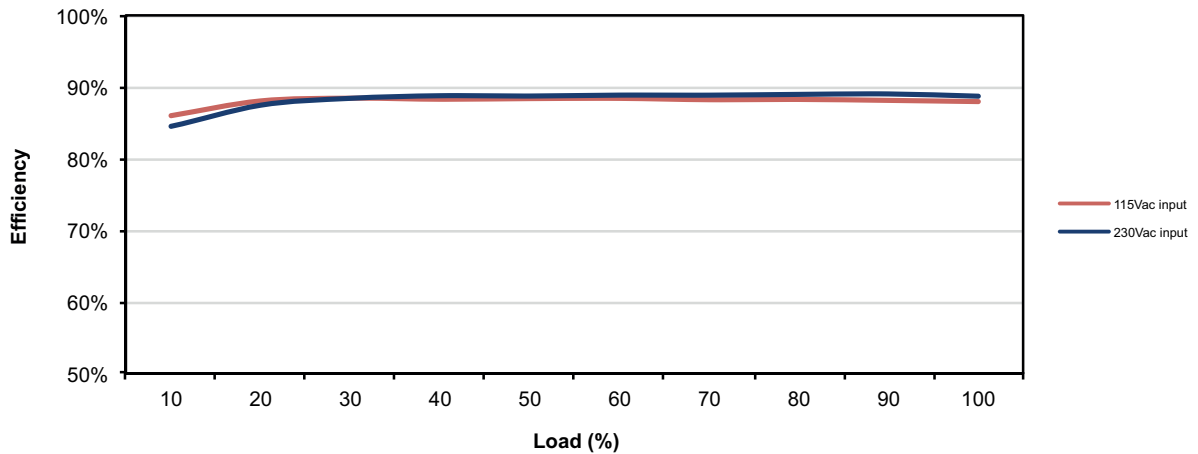
Characteristic	Minimum	Typical	Maximum	Units	Notes & Conditions
Efficiency		88		%	See Models and Ratings table and curves.
Isolation: Input to Output	4242			VDC	
Switching Frequency		67		kHz	
Power Density		5.4		W/in ³	
Mean Time Between Failure	283			kHrs	48 V version, MIL-HDBK-217F at 25 °C GB, 115 VAC
Weight		0.38 (190)		lb (g)	

Efficiency Curves

AEJ36US12



AEJ36US24



EMC: Emissions

Phenomenon	Standard	Test Level	Notes & Conditions
Emissions	EN55032	Level B	Conducted & Radiated
Harmonic Current	EN61000-3-2	Class A	
Voltage Flicker	EN61000-3-3		

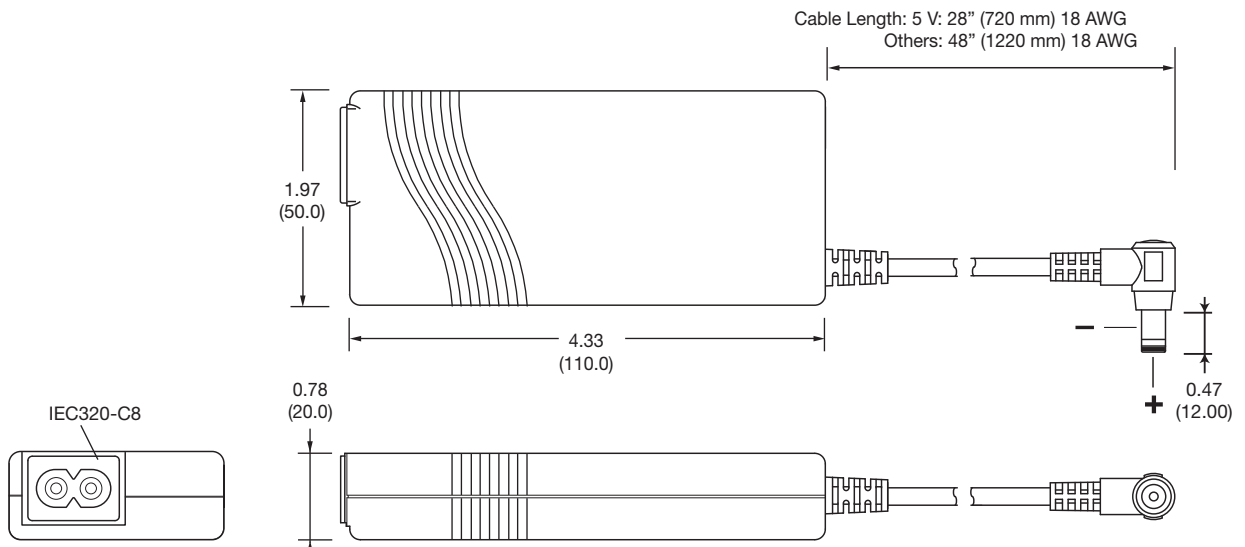
EMC: Immunity

Phenomenon	Standard	Test Level	Criteria	Notes & Conditions
ESD	EN61000-4-2	±8 kV Air, ±4 kV contact	A	
Radiated	EN61000-4-3	3 V/m	A	
EFT/Burst	EN61000-4-4	2	A	
Surge	EN61000-4-5	2	A	Line to Neutral
Conducted	EN61000-4-6	3 V	A	
Magnetic Fields	EN61000-4-8	3 A/m	A	
Dips and Interruptions	EN61000-4-11	Dip: 30% 500 ms	A	
		Dip: 60% 100 ms	A/B	230 VAC/115 VAC
		Int: 100% 5000 ms	B	
		Int: 100% 10 ms	A/B	230 VAC/115 VAC

Safety Approvals

Safety Agency	Safety Standard	Notes & Conditions
UL	UL60950-1	
TUV	EN60950-1	
CB	IEC60950-1	
AU/NZ	AU/NZ 60950.1	

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