

65 Watts

- US DoE Energy efficiency level VI
- EU CoC Tier 2 requirements, ErP stage 2
- EN55032 Level B conducted & radiated
- IEC/EN/UL 62368-1 and 60950-1 approvals
- Single outputs 12 to 56V
- 5 Year warranty



The EDA65 range of external AC-DC power adapters are compliant with the latest energy efficiency Level VI standard, CoC tier 2 and ErP stage 2. The units offer 60-65 watts of output power with output voltages available between 12 and 56VDC. The range is reliable, cost competitive, and comes with an impressive FiDUS 5 year warranty.

Dimensions:

2.08 x 4.53 x 1.49" (53 x 115 x 38mm)

Models & Ratings

Model Number ⁽¹⁾	Output Power	Output voltage	Output Current
EDA6512-C14	60W	12V	5.00A
EDA6515-C14	65W	15V	4.34A
EDA6518-C14	65W	18V	3.62A
EDA6519-C14	65W	19V	3.43A
EDA6524-C14	65W	24V	2.71A
EDA6530-C14	65W	30V	2.17A
EDA6548-C14	65W	48V	1.36A
EDA6556-C14	65W	56V	1.17A

Notes

1. 13.5V, 16V, 20V & 32V unit also available on request, -C6 or -C8 (class II) IEC inlet also available on request
2. Alternative output connectors available for production quantities. Contact sales for details
3. For UK/ US/ EU mains power cable please order UK-C14, US-C14 or EU-C14 separately

Key specifications

Parameter	Minimum	Typical	Maximum	Units	Notes & Conditions
AC Input range	90		264	VAC	No derating
Operating temperature	0		60	°C	100% power at 40°C, derating to 50% power at 60°C
Dimensions	2.08 x 4.53 x 1.49" (53 x 115 x 38mm)				
EMC	EN55032 Level B Conducted and Radiated. EN61000-3 and EN61000-4, harmonics, flicker, Surge, EFT, ESD, conducted and radiated				

Safety Approvals

	Safety standard	Notes & Conditions
UL	UL 60950-1: 2nd edition, UL 62368-1, CSA C22.2 No. 62368-1-14	
CB	IEC 60950-1:2005 /A2:2013, IEC 62368-1	PSE, BSMI, RCM, CCC
TUV	EN 60950-1:2006 /A2:2013, EN 62368-1	
CE		2014/35/EU Low voltage directive
Equipment protection class		Class I or class II for C8 input

Input

Parameter	Minimum	Typical	Maximum	Units	Notes & Conditions
Input voltage	90		264	VAC	No derating
Input frequency	47		63	Hz	
Power factor					EN61000-3-2 class A compliant
Input current			1.4	A	
Inrush current			80	A	High line. Full load, 25°C cool start, Vin=230VAC
No load input power			0.15	W	230VAC

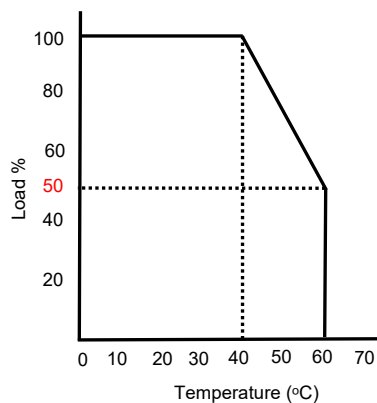
Output

Parameter	Minimum	Typical	Maximum	Units	Notes & Conditions
Output voltage	12		56	VDC	13.5V, 16V, 20V, 32V & 56V units also available on request
Total regulation		±5		%	
Minimum load	0			%	
Transient response		0.5		ms	50% load change
Ripple & Noise		1		%Pk-Pk	All models measured with 10uF and 0.1uf capacitor. 20 MHz bandwidth
Hold up time	10			ms	At full load
Leakage current	0.25		3.5	mA	0.25mA 2 pin, 3.5mA 3 pin
Overload protection			180	%	Automatic recovery
Short circuit protection					Automatic recovery
Over voltage protection			150	%	Latch off reset
Efficiency	87.5			%	Average of 25, 50, 75 & 100% load.

Environmental

Parameter	Minimum	Typical	Maximum	Units	Notes & Conditions
Operating temperature	0		60	°C	100% load at 40°C, derating to 50% load at 60°C
Storage temperature	-20		80	°C	
Cooling					Convection cooled
Operating Humidity	20		80	% RH	
Storage Humidity	10		90	% RH	

Derating curve



General

Parameter	Minimum	Typical	Maximum	Units	Notes & Conditions
Isolation	Input to Output: 3000, 1500 Input to Ground			VAC	For 1 minute
Insulation resistance		10		MOhm	500Vdc input to output and output to ground
Power density			4.63	W/In ³	
MTBF	300			KHrs	As per Telcordia SR-332
Weight		230		g	

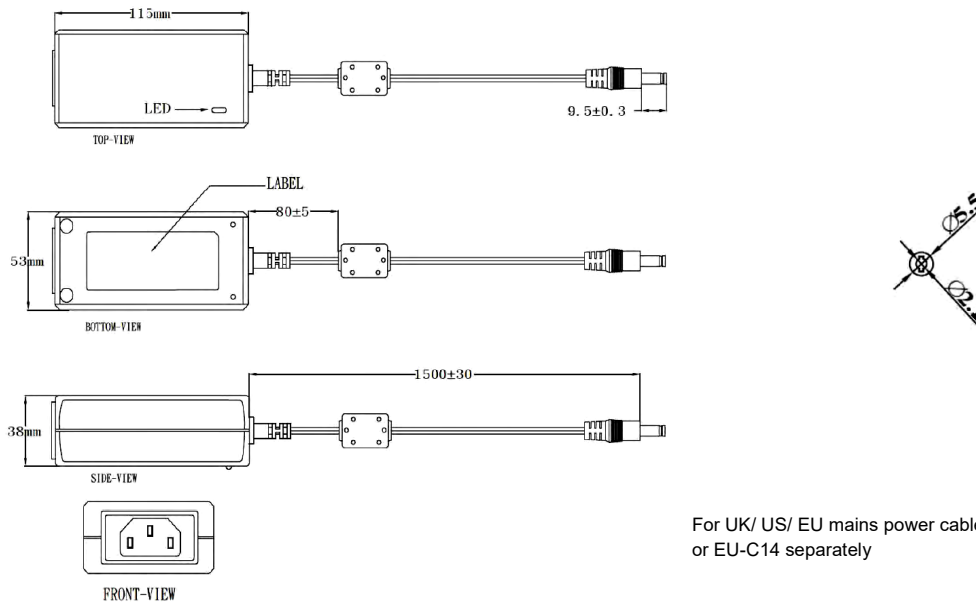
EMC: Emissions

	Standard	Test level	Criteria	Notes & Conditions
Conducted	EN55032	B		
Radiated	EN55032	B		
Harmonic current	EN61000-3-2	Class A		
Voltage flicker	EN61000-3-3			

EMC: Immunity

	Standard	Test level	Criteria	Notes & Conditions
ESD	EN61000-4-2	2,3	A	Contact: 4kV, Air: 8kV
Radiated	EN61000-4-3	2	A	3V/m
EFT	EN61000-4-4	2	A	1kV
Surges	EN61000-4-5	Installation Class 3	A	Line to Neutral 1kV, Line/Neutral to PE 2kV
Conducted	EN61000-4-6	2	A	3Vrms
PFMF	EN61000-4-8	1	A	1A/m
Dips and interruptions	EN61000-4-11	>95% interruption 250 periods, >95% dip 0.5 periods, 30% dip 25 periods. Perf criteria: B,A,A		

Mechanical Details



For UK/ US/ EU mains power cable please order UK-C14, US-C14 or EU-C14 separately

Notes

- All dimensions in mm
- Output connector : 2.1 / 5.5 tuning fork style.
- Negative DC output is AC earth bonded. For floating negative DC output please contact sales
- 12V AWG 16, 15V AWG 18, 18-24V AWG 20, 30-56V AWG 22