EDA18 Series

FiDUS
power in motion...

18 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
- 5 Year warranty

The EDA18 external AC-DC power adapter is compliant with the latest energy efficiency Level VI standard, CoC tier 2 and ErP stage 2. The units offer 15-19.2 watts of output power with 7 output voltages from 5V to 24VDC. The range is reliable, cost competitive, and comes with an impressive FiDUS 5 year warranty.

Dimensions:
C14/6:1.96 x 3.94 x 1.30" (50 x 100 x 33mm)
C8:1.96 x 3.46 x 1.30" (50 x 88 x 33 mm)

Models & Ratings

Model Number(1)	Output Power	Output Voltage	Output Current
EDA1805-C14	15.0W	5V	3.0A
EDA1807-C14	17.5W	7V	2.5A
EDA1809-C14	19.8W	9V	2.2A
EDA1812-C14	19.2W	12V	1.6A
EDA1815-C14	19.5W	15V	1.3A
EDA1818-C14	19.8W	18V	1.1A
EDA1824-C14	19.2W	24V	0.8A

Notes

1. For C8 (class II) or C6 IEC inlets change –C14 for –C8 or C6.
2. For UK/ US/ EU mains power cable please order UK-C14/6/8, US-C14/6/8 or EU-C14/6/8 separately
3. Other outputs; 5.9V, 7.5V, 10V, 11V, 16V also available. Please contact sales

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	C14/6: 1.96 x 3.94 x 1.30" (50 x 100 x 33mm). C8:1.96 x 3.46 x 1.30" (50 x 88 x 33 mm)				
EMC	EN55032 Level B Conducted and Radiated. EN61000-3 and EN61000-4, harmonics, flicker, surge, EFT, ESD, conducted and radiated immunity.				

Safety Approvals

	Safety standard	Notes & Conditions
UL	UL 60950-1: 2nd edition, UL 62368-1	
CB	IEC 60950-1:2005 /A2:2013, IEC 62368-1:2014	PSE, BSMI, RCM, CCC
TUV	EN 60950-1:2005 /A2:2013, EN 62368-1:2014	
CE		2014/35/EU Low voltage directive
Equipment protection class		Class I & II options

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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			0.48	A	
Inrush current	50		60	A	High line. Full load, 25°C cool start, Vin=230VAC
No load input power			0.075	W	230VAC

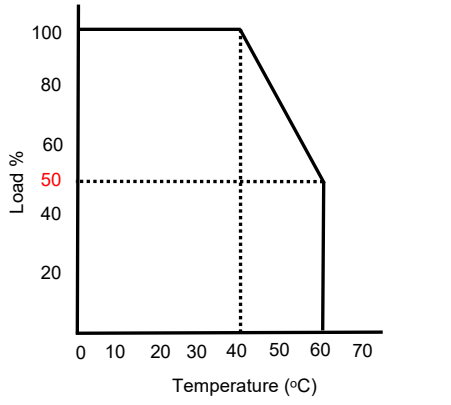
Output

Parameter	Minimum	Typical	Maximum	Units	Notes & Conditions
Total regulation		±6		%	
Minimum load	0			%	
Transient response		0.5		mS	50% load change
Ripple & Noise		2		%Pk-Pk	All models measured with 10uF and 0.1uf capacitor. 20MHz bandwidth
Hold up time	10			ms	At full load
Leakage current	0.25			mA	
Overload protection					Automatic recovery
Short circuit protection					Automatic recovery
Over voltage protection					Latch off reset

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



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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			1.97	W/In^3	
MTBF	300			kHrs	As per Telcordia SR-332
Weight		144		g	

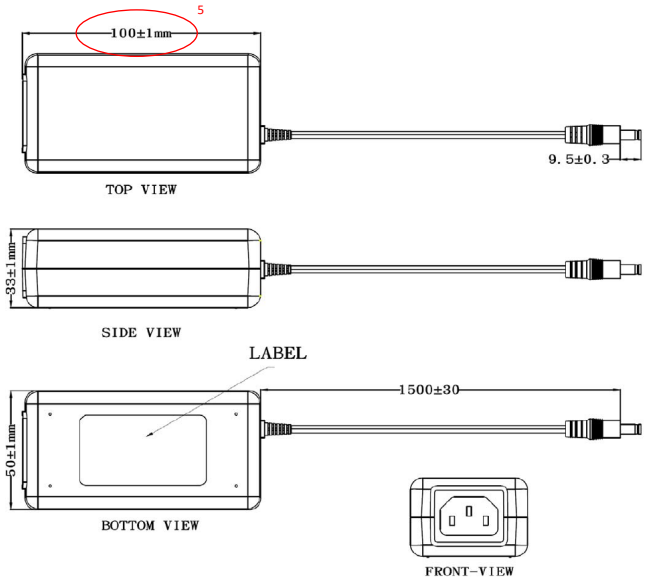
EMC: Emissions

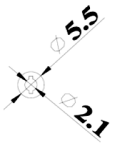
	Standard	Test level	Criteria	Notes & Conditions
Conducted	EN55032	B		
Radiated	EN55032	B		
Harmonic current	EN61000-3-2	Class A		
Voltage flicker	EN61000-3-3			

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	EN6100-4-8	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 separately

Notes

1. All dimensions in mm
2. Output connector : 2.1 / 5.5 tuning fork style.
3. Negative DC output is AC earth bonded
4. Output cable AWG22.
5. C8 version is 88mm long