EDA18 SERIES

18W EXTERNAL

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 33mm)

CLASS I OR II | **EN55032 LEVEL B** | **CONNECTOR CUSTOMISATION**

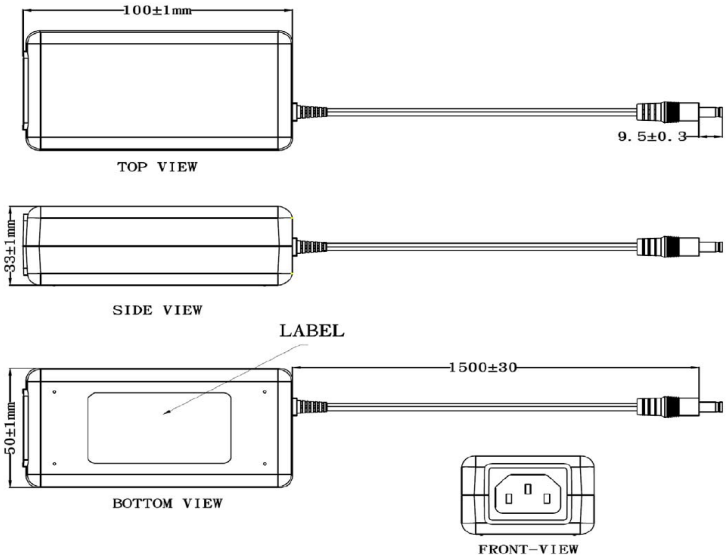
Part numbers

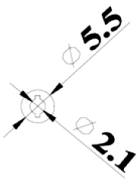
EDA	18	12	-	C14
Series	Power (W)	Output voltage		Options
		05 = 05VDC 07 = 07VDC 09 = 09VDC 12 = 12VDC 15 = 15VDC 18 = 18VDC 24 = 24VDC		-C6 inlet -C8 inlet -C14 inlet

Key specifications

Input range	Safety certification	Efficiency	Environmental performance
90-264VAC	UL/IEC/EN 62368-1	85%	Operational: 0 to 60°C

Mechanical





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

Weight	144g

Models & Ratings

Model Number(1)	Output Power	Output voltage	Output current
EDA1805-C14	15.0W	5V	3.00A
EDA1807-C14	17.5W	7V	2.50A
EDA1809-C14	19.8W	9V	2.20A
EDA1812-C14	19.2W	12V	1.60A
EDA1815-C14	19.5W	15V	1.3A
EDA1818-C14	19.8W	18V	1.1A
EDA1824-C14	19.2W	24V	0.8A

1. C8 Class II or C6 Class I IEC inlet also available. Contact sales for details.
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, 16V also available. Contact sales for details.

Input

Parameter	Min	Typical	Max	Unit	Notes/Conditions
Input voltage	90		264	VAC	See derating curve on page 5
Input frequency	47		63	Hz	
Power factor					EN61000-3-2 class A compliant
Input current (rms)			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	Min	Typical	Max	Unit	Notes/Conditions
Output voltage	5		24	VDC	±5% accuracy
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. 20 MHz bandwidth
Hold up time	10			mS	At full load

Protections

Parameter	Min	Typical	Max	Unit	Notes/Conditions
Overload					Automatic recovery
Short circuit					Automatic recovery
Over voltage protection					Latch off reset

Safety

Parameter	Min	Typical	Max	Unit	Notes/Conditions
Safety standards	UL/IEC/EN 62368-1				
Isolation	Input to Output: 3000			VAC	For 1 minute, Input to ground: 1500
Insulation resistance		10		MOhm	500Vdc input to output and output to ground
Power density			1.97	W/In3	

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			

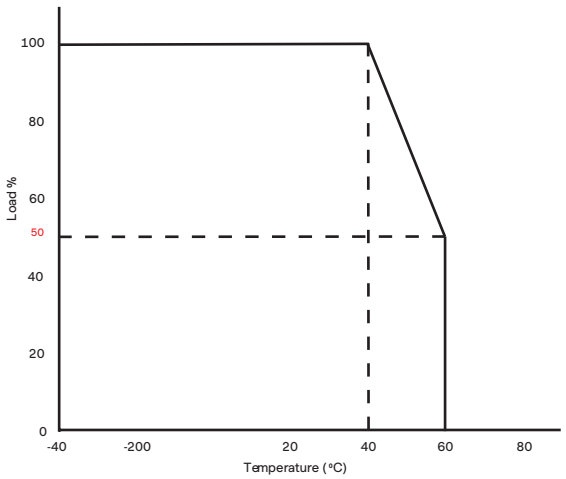
EMC: Immunity

	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		

Environmental

Parameter	Min	Typical	Max	Unit	Notes/Conditions
Operating temperature	0		60	°C	See derating curve below
Storage temperature	-20		80	°C	
Cooling					Convection cooled
Operating humidity	20		80	% RH	
Storage humidity	10		90	% RH	
MTBF	300			kHrs	As per Telcordia SR-332

Derating curve



06th February 2024