

IDA240 SERIES



240W EXTERNAL

DIMENSIONS:



3.19 x 7.21 x 1.67"
(81 x 183.2 x 42.3mm)

COMPACT SIZE

OPERATIONAL <70°C

LEVEL VI

EN55032 LEVEL B

CONNECTOR
CUSTOMISATION

0.21W NO-LOAD

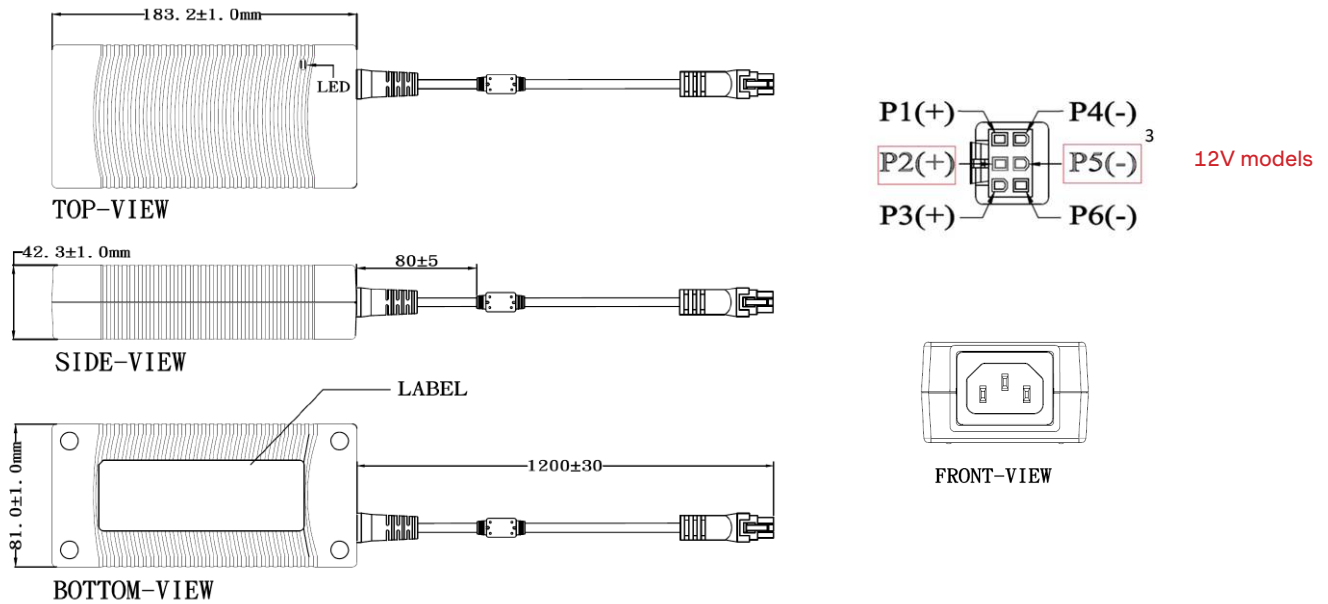
Part numbers

IDA	240	12	-	C14
Series	Power (W)	Output voltage		Options
		12 = 12VDC 19 = 19VDC 24 = 24VDC 48 = 48VDC 56 = 56VDC		-C14 inlet

Key specifications

Input range	Safety certification	Efficiency	Environmental performance
90-264VAC	UL/IEC/EN 62368-1	<88%	Operational: -20 to 60/70°C

Mechanical



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

Notes

1. All dimensions in mm
2. DC output is floating
3. UL2462 cable; 12V 6C AWG16 (1.2M), UL2464 cable; 19-56V AWG18 4C (1.2M)

Weight

860g

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Models & Ratings

Model Number	Output Power	Output voltage	Output current
IDA24012-C14	240W	12V	20A
IDA24019-C14	240W	19V	12.63A
IDA24024-C14	240W	24V	10A
IDA24048-C14	240W	48V	5A
IDA24056-C14	240W	56V	4.28A

1. Alternative output connectors available for production quantities. Contact sales for details.
 2. For UK/ US/ EU mains power cable please order UK-C14, US-C14 or EU-C14 separately.



Input

Parameter	Min	Typical	Max	Unit	Notes/Conditions
Input voltage	90		264	VAC	See derating curve on page 5
Input frequency	50		60	Hz	
Power factor					EN61000-3-2 class A compliant
Input current (rms)			3.3	A	
Inrush current			120	A	High line. Full load, 25°C cool start, Vin=230VAC
No load input power			0.21	W	230VAC



Output

Parameter	Min	Typical	Max	Unit	Notes/Conditions
Output voltage	12		56	VDC	±5% accuracy
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			3.5	mA	3.5mA 3 pin

Protections

Parameter	Min	Typical	Max	Unit	Notes/Conditions
Overload			150	%	Automatic recovery
Short circuit					Automatic recovery
Over voltage protection			150	%	Latch off reset

Safety

Parameter	Min	Typical	Max	Unit	Notes/Conditions
Safety standards	UL/IEC/EN 62368-1				
Isolation	Input to Output: 3000, Input to Ground: 1770			VAC	For 1 minute
Insulation resistance		10		MOhm	500Vdc input to output and output to ground
Power density			6.25	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,B		

Environmental

Parameter	Min	Typical	Max	Unit	Notes/Conditions
Operating temperature	-20		60/70	°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

