

## IDA90 SERIES



90W EXTERNAL

DIMENSIONS:



2.11 x 5.26 x 1.30"  
(53.5 x 133.5 x 33mm)

COMPACT SIZE

C14 / C6 INLET

LEVEL VI

EN55032 LEVEL B

CONNECTOR  
CUSTOMISATION

ErP STAGE 2

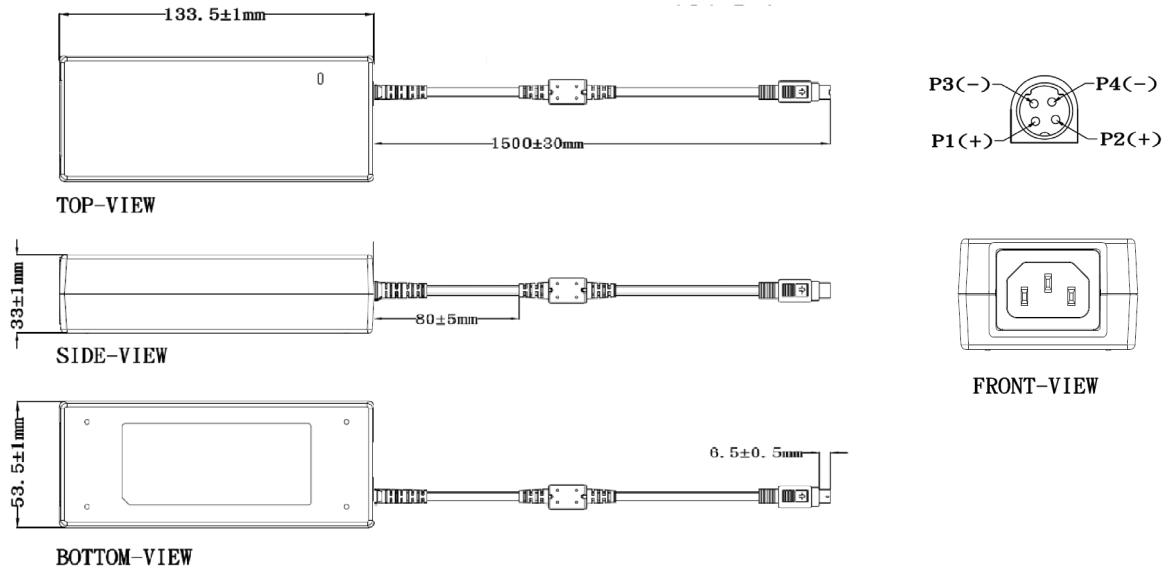
### Part numbers

IDA	90	12	-	C14
Series	Power (W)	Output voltage		Options
		12 = 12VDC 15 = 15VDC 16 = 16VDC 18 = 18VDC 19 = 19VDC 24 = 24VDC 48 = 48VDC 56 = 56VDC		-C14 inlet -C6 inlet

### Key specifications

Input range	Safety certification	Efficiency	Environmental performance
90-264VAC	UL/IEC/EN 62368-1	>88%	Operational: -20 to 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. Output connector : 4Pin Din
3. Negative DC output is AC earth bonded.  
For floating negative DC output please contact sales
4. UL1185 cable; 12-16V AWG16 (1.2M), 18-24V AWG18 (1.5M), 48-56V AWG20 (1.5M)

**Weight**

330g

### Models & Ratings

Model Number <sup>(1)</sup>	Output Power	Output voltage	Output current
IDA9012-C14	90W	12V	7.5A
IDA9015-C14	90W	15V	6A
IDA9016-C14	90W	16V	5.63A
IDA9018-C14	90W	18V	5A
IDA9019-C14	90W	19V	4.7A
IDA9024-C14	90W	24V	3.75A
IDA9048-C14	90W	48V	1.88A
IDA9056-C14	90W	56V	1.6A

- C6 IEC inlet also available on request.
- Alternative output connectors available for production quantities. Contact sales for details.
- 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)			1.2	A	
Inrush current			80	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			6.24	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	-20		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

Derating curve

