IDA300 SERIES

300W EXTERNAL

DIMENSIONS:

3.70 x 8.03 x 1.71"
(94 x 204 x 43.5mm)

COMPACT SIZE | **OPERATIONAL <70°C** | **LEVEL VI**

EN55032 LEVEL B | **CONNECTOR CUSTOMISATION** | **UP TO 92% EFFICIENT**

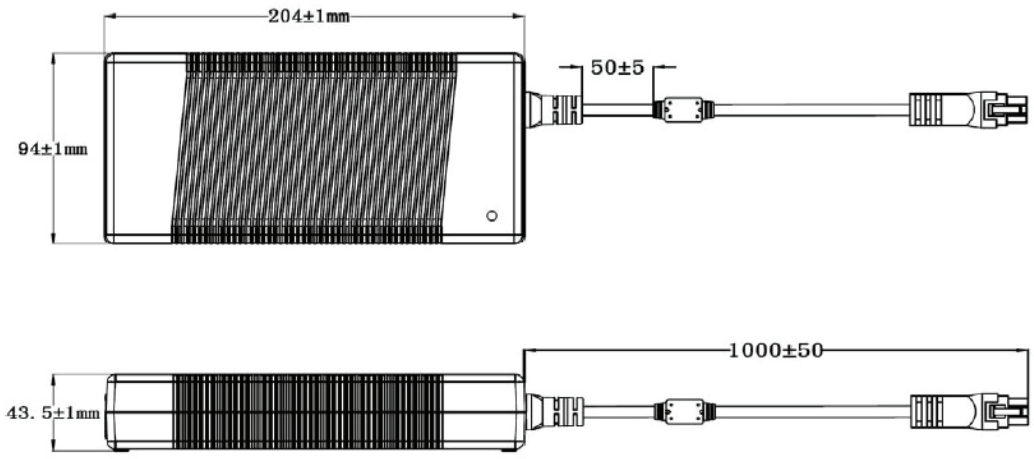
Part numbers

IDA	300	12	-	C14
Series	Power (W)	Output voltage		Options
		12 = 12VDC 19 = 19VDC 24 = 24VDC 48 = 48VDC 56 = 56VDC		-C14 inlet

Key specifications

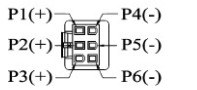
Input range	Safety certification	Efficiency	Environmental performance
90-264VAC	UL/IEC/EN 62368-1	<88%	Operational: -20 to 60/70°C

Mechanical



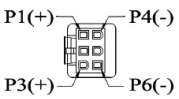
For UK/ US/ EU mains power cable please order UK-C14, US-C14 or EU-C14 separately

6Pin Housing for 12-19V



Output Cable Plug Pin Assignment

6Pin Housing for 24-56V



Output Cable Plug Pin Assignment

Notes
1. All dimensions in mm 2. DC output is floating 3. UL2462 cable; 12-19V AWG16 (1M), 24V AWG16 4C (1.2M), 48-56V AWG18 (1.2M)

Weight	1110g

Models & Ratings

Model Number	Output Power	Output voltage	Output current
IDA30012-C14	288W	12V	24A
IDA30019-C14	300W	19V	15.79A
IDA30024-C14	300W	24V	12.5A
IDA30048-C14	300W	48V	6.25A
IDA30056-C14	300W	56V	5.36A

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)			3.5	A	
Inrush current			150	A	High line. Full load, 25°C cool start, Vin=230VAC
No load input power			0.5	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			5.90	W/In3	

EMC: Emissions

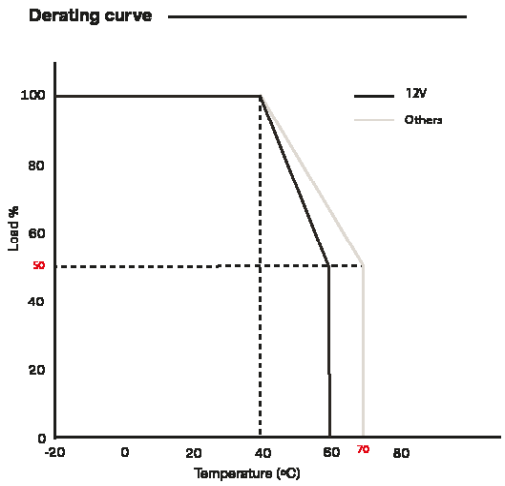
	Standard	Test level	Criteria	Notes/Conditions
Conducted	EN55032	B		
Radiated	EN55032	B		
Harmonic current	EN61000-3-2	Class A		
Voltage flicker	EN61000-3-3			

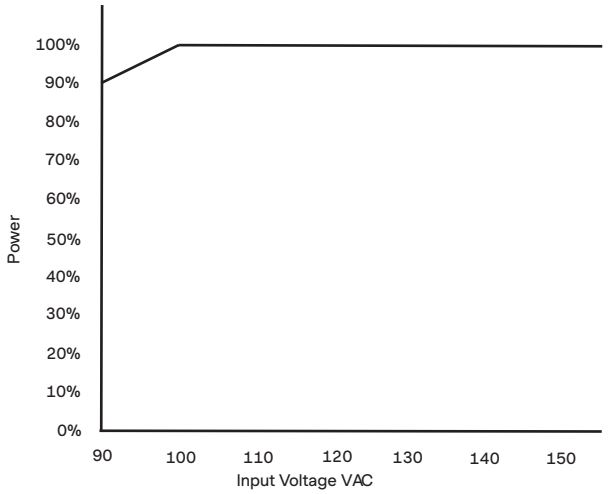
EMC: Immunity

	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		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





27th September 2023