

IDA120 SERIES



120W EXTERNAL

DIMENSIONS:



5.51 x 2.36 x 1.37"
(140.5 x 60 x 35mm)

COMPACT SIZE

C14 / C6 INLET

LEVEL VI

EN55032 LEVEL B

CONNECTOR
CUSTOMISATION

UP TO 88% EFFICIENT

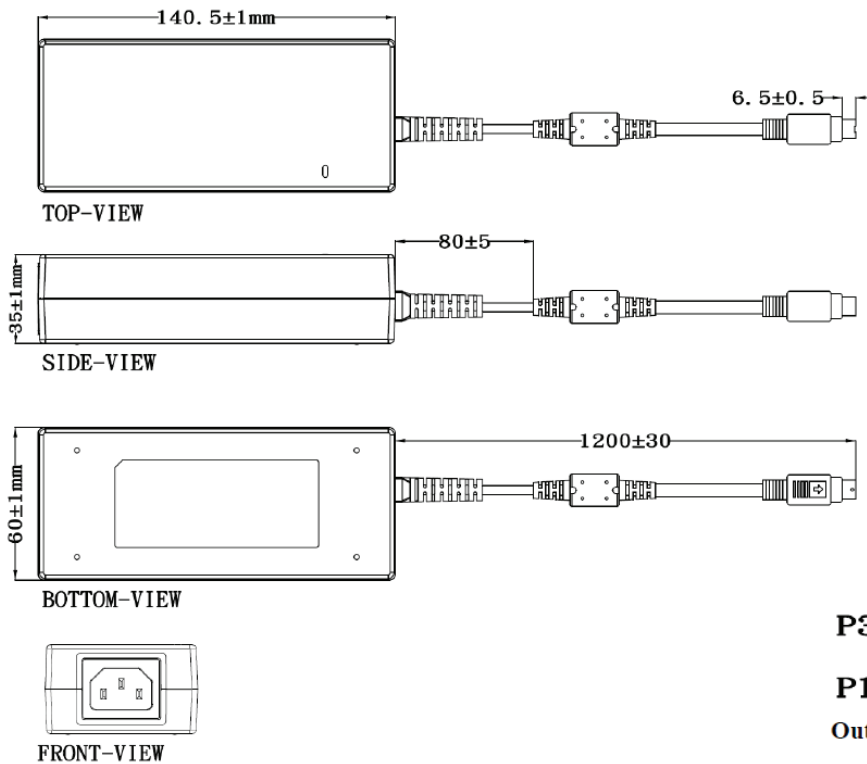
Part numbers

IDA	120	12	-	C14
Series	Power (W)	Output voltage		Options
		12 = 12VDC 15 = 15VDC 16 = 16VDC 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 60°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 : Kycon 4 pole power adapter, mates with board mount KPJX, panel mount KP-JX-PM and cable mount KPJX-CM
3. Negative DC output is tied to PE. For floating DC output please contact sales
4. UL1132 output cable, for 12V units is reduced to 1200mm for energy efficiency. 12-16V AWG16, others AWG18.

Weight

390g

IDA120 SERIES

Models & Ratings

Model Number ⁽¹⁾	Output Power	Output voltage	Output current
IDA12012-C14	108W	12V	9.00A
IDA12015-C14	120W	15V	8.00A
IDA12016-C14	120W	16V	7.50A
IDA12019-C14	120W	19V	6.30A
IDA12024-C14	120W	24V	5.00A
IDA12048-C14	120W	48V	2.50A
IDA12056-C14	120W	56V	2.14A

1. -C6 or IEC inlet also available on request.
 2. Alternative output connectors available for production quantities. Contact sales for details.
 3. 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	47		63	Hz	
Power factor					EN61000-3-2 class A compliant
Input current (rms)			1.6	A	
Inrush current			100	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

Protections

Parameter	Min	Typical	Max	Unit	Notes/Conditions
Overload			180	%	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			6.74	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	°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

