GDA160 SERIES

160W EXTERNAL

DIMENSIONS:
C14/C6 - 6.33 x 2.12 x 1.3" (161 x 54.2 x 33.2mm)
C8 - 5.9 x 2.12 x 1.3" (150 x 54 x 33mm)

COMPACT SIZE | **CLASS I OR II** | **LEVEL VI**

EN55032 LEVEL B | **CONNECTOR CUSTOMISATION** | **95% EFFICIENT**

Part numbers

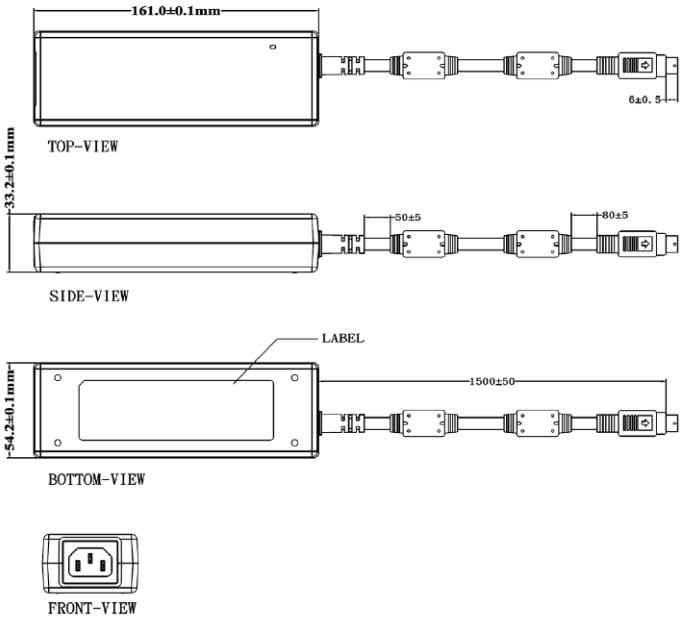
GDA	160	12	-	C14
Series	Power (W)	Output voltage		Options
		12 = 12VDC 19 = 19VDC 24 = 24VDC 48 = 48VDC 56 = 56VDC		-C14 inlet -C6 inlet -C8 inlet

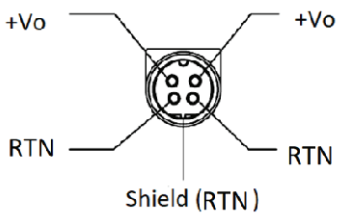
Key specifications

Input range	Safety certification	Efficiency	Environmental performance
90-264VAC	UL/IEC/EN 62368-1	95%	Operational: 0 to 60/70°C

Mechanical

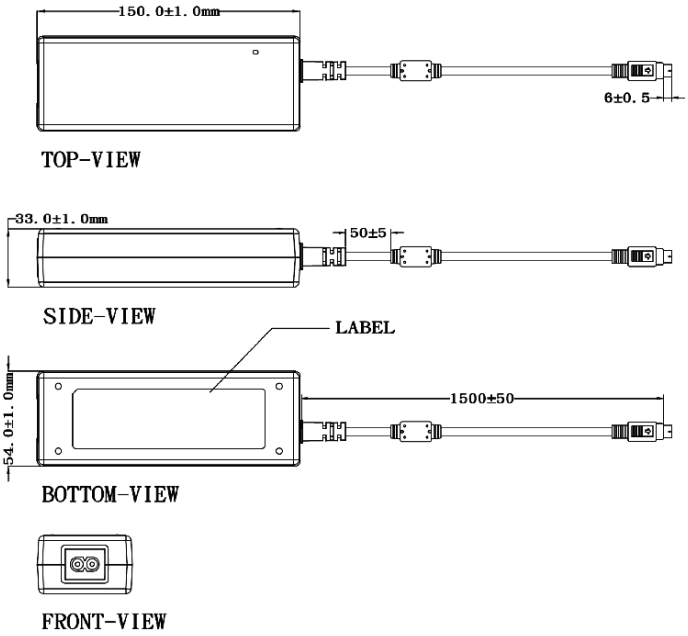
C14 version





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

C8 version



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. C8 inlet models are shorter at 150mm 4. Output cable for 12V units is reduced to 1200mm AWG16 4 core for energy efficiency. AWG18 4 Core 19V-56V 1500mm single ferrite only nearest PSU

Weight	530g

Models & Ratings

Model Number(1)	Output Power	Output voltage	Output current
GDA16012-C14	150W	12V	12.50A
GDA16019-C14	160W	19V	8.40A
GDA16024-C14	160W	24V	6.60A
GDA16048-C14	160W	48V	3.30A
GDA16056-C14	160W	56V	2.86A

1. For C8 & C6 version change -C14 for -C8 or C6
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	Derate from 100% at 100VAC to 90% at 90VAC. See derating curve on page 5
Input frequency	47		63	Hz	
Power factor					EN61000-3-2 class A compliant
Input current (rms)			2.2	A	
Inrush current			100	A	High line. Full load, 25°C cool start, Vin=230VAC
No load input power			0.15	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. 150mV for 12V version
Hold up time	10			mS	At full load
Leakage current			0.25	mA	

Protections

Parameter	Min	Typical	Max	Unit	Notes/Conditions
Overload			180	%	Automatic recovery
Short circuit					Automatic recovery
Over voltage protection			180	%	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
Insulation resistance		10		MOhm	500Vdc input to output
Power density			9.84	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			

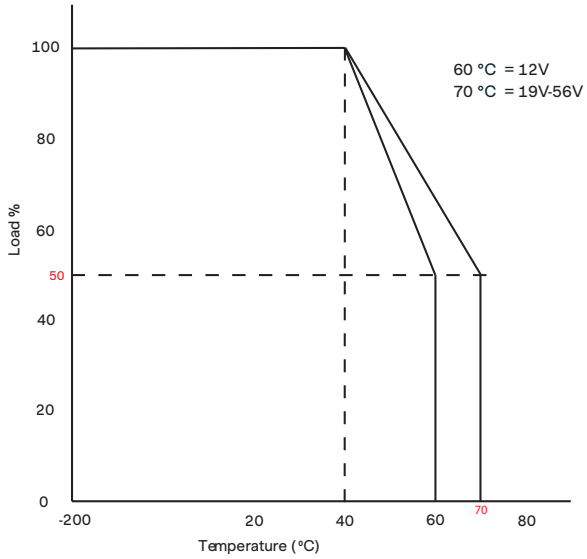
EMC: Immunity

	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		60/70	°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



14th November 2023