

CAR4A

Car Adapter DC/DC



Features:

- Wide input voltage range
- Max. output power 72.00W
- Car/Truck input connector

Applications:

Suitable for use with tablet PC's, netbooks, handheld devices (e.g. scanner, RFID devices) etc.

Specification

Input		
Voltage range	10.50 – 32.00VDC	
Stand-by current	Typical 77.00mA @ 10.50V input Typical 54.00mA @ 32.00V input	
Input fuse	10.00A	
Protection	Reverse polarity (input fuse) Under voltage protection (Transient suppression circuit)	
Output		
Voltage range	3.00 – 24.00V nominal	
Power	60.00W cont. 72.00W max.	
Initial set tolerance	±5% max.	
Load regulation	-100mV max. / A	
Line regulation	±1% max.	
Ripple & Noise	< 300.00mV _{pk-pk}	
Current limit	Constant current, 4.00A max.	
Protection	Short circuit, over temperature protection, over voltage protection	
Environmental		
Cooling	Convection cooled	
Temperature	Operating: -20°C to 35°C 35°C to 50°C, derating 35%	Non-operating: -40°C to 85°C
Pressure & Altitude	Operating: 1200hPa to 570hPa max. 4600m above sea level	Non-operating: 1200hPa to 115hPa max. 15000m above sea level
Humidity	5% to 95% r.H., non-condensing	
General		
Input connector	Cigarette lighter adapter	
Output connector	Customer-specific	
Efficiency	Typical 86% at 100% load	
MTBF	20000h @ 25°C ambient temperature and G _B per MIL HDBK217F	
Green procurement	WEEE RoHS	
Indicator	Single green LED	
Ingress protection rating	IEC60529, IP40	
Safety & EMC		
Regulatory approvals	Europe USA/Canada Australia	CE UL60950-1 RCM
Electromagnetic Emissions	Europe	EN55011/EN55022 class B, EN55024, EN55014-1
Electromagnetic Immunity	USA	FCC15 class B
	ESD immunity	IEC61000-4-2, 4kV contact, 8kV air
	Electromagnetic field immunity	IEC61000-4-3, 80-1000MHz, 10V/m, AM 80% 1kHz, PM ED50% 200Hz
	Electrical fast transient/burst immunity test	IEC61000-4-4,+/-1kV, 5/50ns
	Surge immunity test	IEC61000-4-5,+/-0,5kVsym, 1.2/50(8/20)µs
Conducted Immunity		IEC61000-4-6, 0.15-80MHz, 10V, 80%, 1kHz, AM, CDN-M2
	Immunity	IEC61000-6-1
	Impulse	DIN40839 part 1

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Mechanical Details	
Housing dimensions (LxWxH)	111.00 x 48.00 x 35.00mm, without cables and connectors
Input cable length	100cm ±5%
Output cable length	100cm ±5%
Weight	Approx. 200g, without cables, connectors and wall-mount kit

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