CAR120A

Car Adapter DC/DC



Features:

- Wide input voltage range
- Max. output power 150.00W
- For use in cars, trucks and aircrafts
- Automatic power reduction in aircraft thanks to IFPL™ (In Flight Power Limiting) technology

Applications:

Suitable for use with all notebooks

Specification

Input		
Voltage range	11.00 – 32.00VDC	
Stand-by current	Typical 85.00mA @ 11.00V input Typical 75.00mA @ 32.00V input	
Input fuse	15.00A	
Protection	Reverse polarity (input fuse) Under / Over voltage protection (Transient suppression circuit) Over temperature protection Automatic power limitation for aircraft (75.00W) & thermal management (cigarette lighter adapter)	

Output		
Voltage range	5.00 – 24.00V nominal	
Power	120.00W cont. 150.00W max.	
Initial set tolerance	±3% max.	
Load regulation	-80.00mV max. / A	
Line regulation	±1% max.	
Ripple & Noise	< 90.00mV_{pk-pk}	
Current limit	Constant current, 8.00A max.	
Protection	Short circuit, over temperature protection, over voltage protection	

Environmental		
	Operation:	Storage:
Ambient Temperature	-20°C to 40°C	-40°C to 85°C
Pressure & Altitude	1200hPa to 570hPA max. 4600m above sea level	1200hPa to 115hPa max. 15000m above sea level
Humidity (non-condensing)	5% to 95% r.H.	5% to 95% r.H.

General	
Input connector	Cigarette lighter adapter with IFPL™ System
Output connector	Customer-specific
Efficiency	Typical 96% at 100% load
MTBF	> 100000h @ 25°C ambient temperature and G_B per MIL HDBK217F
Green procurement	RoHS 2011/65/EU + 2015/863/EU REACH 1907/2006 WEEE 2012/19/EU
Indicator	Green LED: OK/Status Red LED: Failure
Ingress protection rating	IEC60529, IP40
Cooling	Convection cooled

Safety & EMC		
Regulatory approvals	Europe United Kingdom International USA/Canada Australia & New Zealand	CE UKCA CB Report IEC 60950-1 UL60950-1 RCM
Electromagnetic Emissions	Europe USA	EN 55011/55022 class B, EN55014-2, EN55024 FCC15 class B
Electromagnetic Immunity	ESD immunity Electromagnetic field immunity Electrical fast transient/burst immunity test Surge immunity test Conducted Immunity ISO-Impulses	IEC61000-4-2, 4kV contact/ 8kV air IEC61000-4-3, 80-2500MHz, 10V/m, AM 80%/1kHz IEC61000-4-4,+/-2kV, 5/50ns IEC61000-4-5,+/-2kV DM, 1.2/50 (8/20)µs IEC61000-4-6, 0.15-80MHz, 10V, 80%, 1KHz, AM, with CDN ISO7637-2, pulses 1, 2, 3a, 3b, 5

- other approvals on request

Mechanical Details	
Housing dimensions (LxWxH)	140.00 x 62.00 x 19.00mm, without cables and connectors
Input cable length	100cm ±5%
Output cable length	100cm ±5%
Weight	Approx. 360g, without cables and connectors

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