

CAR70M

Car Adapter DC/DC



Features:

- Wide input voltage range
- Max. output power 70.00W
- Galvanic isolation for maximum patient safety
- Car/Truck input connector
- Wall-mount kit optional

Applications:

Suitable for use with all mobile medical devices (e.g. respirator, defibrillator, suction pump, etc.)

Specification

Input		
Voltage range	10.00 – 32.00VDC	
Stand-by current	Typical 37.00mA @ 10.00V input Typical 29.00mA @ 32.00V input	
Input fuse	10.00A	
Protection	Reverse polarity Over voltage protection (Transient suppression circuit)	
Output		
Voltage range	16.00 – 19.00V nominal	
Power	66.00W cont. 70.00W max.	
Initial set tolerance	±3% max.	
Load regulation	-4% max.	
Line regulation	±1% max.	
Ripple & Noise	< 120.00mV _{pk-pk}	
Current limit	Constant current	
Protection	Short circuit, over temperature protection, over voltage protection	
Environmental		
	Operation:	Storage:
Ambient Temperature	-20°C to 40°C 40°C to 50°C, derating 35%	-40°C to 75°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		
Galvanic isolation	Isolation voltage 2.00kV	
Input connector	Cigarette lighter adapter	
Output connector	Customer-specific	
Efficiency	Typical 88% 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	Single green LED	
Ingress protection rating	IEC60529, IP42	
Cooling	Convection cooled	
Safety & EMC		
Regulatory approvals	Europe United Kingdom International USA/Canada	CE UKCA CB Report IEC 60601-1 2 nd edition CB Report IEC 60601-1 3 rd edition UL60601-1
Electromagnetic Emissions	Europe USA Medical electrical equipment	EN 55011/55022 class B FCC15 class B IEC60601-1-2
Electromagnetic Immunity	ESD immunity Electromagnetic field immunity Electrical fast transient/burst immunity test Surge immunity test Conducted Immunity ISO-Impulses Medical electrical equipment	IEC61000-4-2, 8kV contact/ 15kV air IEC61000-4-3, 80-2700MHz, 30V/m, modulation 80%/200Hz IEC61000-4-4,+/-2kV, 5/50ns IEC61000-4-5,+/-0,5kVsym, 1.2/50 (8/20)µs IEC61000-4-6, 0.15-80MHz, 10V, 80%, 1KHz, AM, with CDN ISO7637-2, pulse 1 till 5, immunity test level III IEC60601-1-2

- other approvals on request

Mechanical Details	
Housing dimensions (LxWxH)	160.00 x 59.00 x 34.00mm, without cables and connectors
Input cable length	240cm ±5%
Output cable length	100cm ±5%
Weight	Approx. 350g, without cables, connectors and wall-mount kit

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