

CAR90U

Car Adapter DC/DC



Features:

- Wide input voltage range
- Ultra-compact and lightweight car adapter
- 90.00W continuous output power
- All output voltages and currents can be configured via the multiple connector system (MCS)
- Worldwide approvals
- High safety standards (e.g. protection against short circuit, over current, over voltage, over temperature)
- For use in cars and trucks

Applications:

Suitable for portable mobile devices

Specification

Input	
Voltage range	11.00 – 32.00VDC
Switch off voltage	10.00VDC
Stand-by current	Typical 40.00mA @ 11.00V input Typical 80.00mA @ 32.00V input
Input fuse	12.00A (in CLP)
Protection	Reverse polarity (input fuse CLP) Under voltage protection Over temperature protection (latch-off reset)

Output	
Voltage range	5.00 – 24.00V nominal
Power	90.00W cont.
Initial set tolerance	±3% max.
Load regulation	-80.00mV max. / A
Line regulation	±1% max.
Ripple & Noise	< 200.00mV _{pk-pk}
Current limit	Constant current, 6.00A max.
Protection	Short circuit, over current protection (current limitation), over voltage protection (latch-off reset), over temperature protection (latch-off reset)

Environmental		
	Operation:	Storage:
Ambient Temperature	-20°C to 40°C	-40°C to 85°C
Pressure & Altitude	1200hPa to 795hPa max. 2000m above sea level	1200hPa to 115hPa max. 1500m above sea level
Humidity (non-condensing)	5% to 95% r.H.	5% to 95% r.H.

General	
Input connector	Cigarette lighter adapter (CLP)
Output connector	Customer-specific with multiple connector system
Efficiency	Typical 96% at 100% load
MTBF	> 20000h @ 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	On: Power on Flashing: Failure Off: Power off
Ingress protection rating	IEC60529, IP40
Cooling	Convection cooled

Safety & EMC		
Regulatory approvals	Europe United Kingdom International USA/Canada Australia	CE UKCA CB Report IEC60950-1 cULus UL60950-1 RCM
Electromagnetic Emissions	Europe USA	EN55022 class B, EN55024 FCC15 class B
Electromagnetic Immunity	ESD immunity Electromagnetic field immunity Electrical fast transient/burst immunity test ISO-Impulses	IEC61000-4-2, 4kV contact/ 8kV air IEC61000-4-3, 80-2700MHz, 3V/m, AM 80%/1kHz IEC61000-4-4, +/-1kV, 5/50ns ISO7637-2, pulses 1, 2a, 2b, 3a, 3b, 4

- other approvals on request

Mechanical Details	
Housing dimensions (LxWxH)	115.00 x 53.70 x 21.50mm, without cables and connectors
Input cable length	100cm ±5%
Output cable length	100cm ±5%
Weight	250g, without cables and connectors

Germany/Headquarters

RRC power solutions GmbH
Technologiepark 1
66424 Homburg / Saar

Tel.: +49 6841 98090
Fax: +49 6841 9809280
Email: sales@rrc-ps.de
Web: www.rrc-ps.com

USA

RRC power solutions Inc.
18340 Yorba Linda Blvd.,
107-437
Yorba Linda, CA 92886

Tel.: +1 714 777 3604
Fax: +1 714 777 3658
Email: usa@rrc-ps.com
Web: www.rrc-ps.com

Hong Kong

RRC power solutions Ltd.
S-V,6/F, Valiant Industrial
Centre 2-12 Au Pui Wan Street
Fo Tan, N.T., Hong Kong

Tel.: +852 2376 0106
Fax: +852 2375 0107
Email: hkrcc@rrc-ps.cn
Web: www.rrc-ps.cn




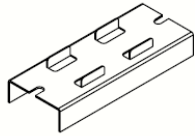
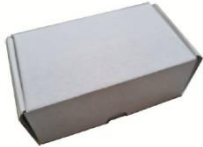
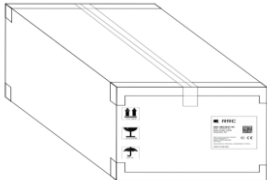
China

RRC power solutions Ltd.
Room 1306, C Building,
Tianan International building,
Renmin South Road, Luohu
District, Shenzhen 518021

Tel.: +86 755 8374 1908
Fax: +86 755 8374 1861
Email: hkrcc@rrc-ps.cn
Web: www.rrc-ps.cn

RECYCLING INFORMATION

RRC Standard Car Adapter & Custom Car-Adapter Variants

Products	
RRC-SMB-CAR	CAR90A
CAR12A	CAR90U
CAR15A	CAR100M
CAR15B	CAR120A
CAR4A	CAR150U
CAR70M	
Material	Packaging component
LDPE 4 	PE-Bag 
PAP 20 	Paper Sheet 
	Single Box 
	Outer Box 

Pictures only for reference