

## CAR15B

Car Adapter DC/DC



### Features:

- Wide input voltage range
- Max. output power 15.00W
- Car/Truck input connector

### Applications:

Suitable for use with PDA`s, GSM & GPRS navigation systems, handheld devices (e.g. payment terminals) etc.

## Specification

Input		
Voltage range	9.00 – 32.00VDC	
Stand-by current	Typical 60.00mA @ 9.00V input Typical 37.00mA @ 32.00V input	
Input fuse	3.15A	
Protection	Reverse polarity (input fuse)	
Output		
Voltage range	3.00 – 8.00V	
Power	15.00W cont.	
Initial set tolerance	±3% max.	
Load regulation	-4% max.	
Line regulation	±1% max.	
Ripple & Noise	< 90.00mV <sub>pk-pk</sub>	
Current limit	Constant current	
Protection	Short circuit, over temperature 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	
Output connector	Customer-specific	
Efficiency	Typical 85% at 100% load	
MTBF	>20000h @ 25°C ambient temperature and G <sub>B</sub> 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, IP40	
Cooling	Convection cooled	
Safety & EMC		
Regulatory approvals	Europe United Kingdom Australia	CE UKCA RCM
Electromagnetic Emissions	Europe	EN55022 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, 80-1000MHz, 10V/m, modulation 80%/200Hz IEC61000-4-4, +/-1kV, 5/50ns  IEC61000-4-5, +/-1kV, 1.2/50 (8/20) $\mu$ s IEC61000-4-6, 0.15-230MHz, 10V, 80%, 1KHz, AM ISO7637-2:2004, pulse 1 till 5, immunity test level III

**- other approvals on request**

## Mechanical Details

Housing dimensions (LxWxH)	61.00 x 41.00 x 29.00mm, without cables and connectors
Input cable length	100cm ±5%
Output cable length	100cm ±5%
Weight	44g, 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](mailto:sales@rrc-ps.de)  
Web: [www.rrc-ps.com](http://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](mailto:usa@rrc-ps.com)  
Web: [www.rrc-ps.com](http://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](mailto:hkrcc@rrc-ps.cn)  
Web: [www.rrc-ps.cn](http://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](mailto:hkrcc@rrc-ps.cn)  
Web: [www.rrc-ps.cn](http://www.rrc-ps.cn)