



PRODUCT SAFETY LEAFLET 2911R998

FOR 100 WATT VEHICLE POWER ADAPTORS

ADAPTORS FOR CAMCORDER AND PORTABLE COMPUTER MAINS CHARGERS

SM2911 12V INPUT, WITH 3 PIN IEC OUTPUT LEAD.	RS STOCK No. 243-1686.
SM2919 12V INPUT, WITH 2 PIN IEC OUTPUT LEAD.	RS STOCK No. 243-1692.
SM2913 24V INPUT, WITH 3 PIN IEC OUTPUT LEAD.	RS STOCK No. 243-1709.
SM2914 24V INPUT, WITH 2 PIN IEC OUTPUT LEAD.	RS STOCK No. 243-1715.

WARNING: These converters produce **LETHAL** mains level voltages. To ensure safety, you **must** adhere to the following instructions:-

1 **NEVER** remove the lid of the Adaptor unless it has been disconnected from the battery for at **LEAST 30 MINUTES**, and then only to change the fuse or swap the output polarity in models with that facility. **LETHAL VOLTAGES** may persist inside for up to 30 minutes after disconnection from battery.

2 **ALWAYS** use with equipment complying with international safety standards. Treat the output socket with the same concern as a normal mains socket.

3 **IF IN DOUBT** consult a qualified electrician about any proposed installation, after showing him this leaflet.

4 **ALWAYS** treat the output connections as being live even when the unit is not connected to the battery or switched off. Energy is stored internally and may take over 30 minutes to leak away.

5 **DO NOT** connect the converter to any other supply voltage whether it is live or not. The unit is for stand alone use only.

6 **ONLY** use these converters in vehicles having the negative terminal of the battery connected to vehicle chassis (virtually all modern vehicles). This is often termed, 'negative earth'.

7 **EVERY** time you use the converter or any electrical appliance, check that all connections and screws etc. are tight, and that no wires have damaged insulation. Make sure that cables do not chafe on sharp objects.

8 **DO NOT** use the unit with a RCD breaker. It will not provide any protection as the RCD will not operate.

CAUTION: For internal or in-vehicle use only. Protect from moisture. Not for life dependent use.

DISCUSSION FOR QUALIFIED ELECTRICIANS CONSULTED ABOUT INSTALLATION.

These adaptors produce high voltage DC (330 volts nominal) equivalent to rectified mains. They are only suitable for equipment employing direct off line switch mode conversion techniques where the mains is first rectified. They will not run equipment employing a mains transformer. The adaptors will not operate Residual Current Devices as they require ac for their differential transformer.

Wiring configuration is as follows:- The 'earth' pin and the negative (marked neutral) of the output socket are connected to case, negative input, and hence the chassis of any negative earth vehicle. The positive output is taken to the terminal marked live.

As there is no input/output isolation, dependence is on the safety barrier within the powered equipment, and standard connectors ensure the safety of passengers. Should the unit earth connection to vehicle chassis be lost, the battery connection will also be broken, turning off the unit. Note that an earth connection still exists if the mains apparatus has earth connection and is in contact with the vehicle body.

Should any unit be used in a permanent installation, such as a standby supply working off a separately charged battery, the output must be presented independently, with the negative battery terminal bonded to earth. Change over must be manual, with the user swapping the equipment input from mains lead to adaptor output lead.