



## 200 WATT 'HANDY MAINS' POWER ADAPTOR

**SM 2709** 12V input, 3 wire and wire outlet.  
**SM 2710** 12V input, cigar plug and UK outlet.  
**SM 2711** 12V input, 3 wire and UK outlet.  
**SM 2713** 12V input, cigar plug, IEC outlet. (60Hz)  
**SM 2714** 12V input, 3 wire and IEC outlet.  
**SM 2715** 12V input, cigar plug and IEC outlet.

**SM 2718** 12V input, 3 wire and SHUKO outlet.  
**SM 2727** 12V input, cigar plug and SHUKO outlet.  
**SM 2730** 24V input, 3 wire/cigar plug, and UK outlet.  
**SM 2732** 24V input, 3 wire and IEC outlet  
**SM 2735** 24V input, 3 wire and wire outlet.  
**SM 2736** 24V input, 3 wire/cigar plug, SHUKO outlet.

**SM 2791** Mounting bracket kit.

- **INSTANT MAINS POWER FROM YOUR BATTERY**
- **CAN BE PERMANENTLY INSTALLED.**
- **HIGH OUTPUT POWER IN COMPACT SIZE.**
- **VERY HIGH CONVERSION EFFICIENCY.**
- **REMOTE ON / OFF CONTROL FACILITY.**

**GENERAL.** These economic inverters convert battery voltage to 230V AC, for powering small power tools and domestic appliances, etc. All models have an output power of 250 watts short term, and a continuous power available of 200 watts. Output is either by standard UK 13A or Euro SHUKO or IEC (Kettle type) socket.

The **HANDY MAINS** is fitted with an audible warning indicating that the battery is becoming discharged. The warning tone gets louder as the battery voltage falls, prompting you to charge the battery.

Cigar plug versions are fitted with a plug for direct connection to a cigar lighter socket. A rating for the cigar lighter socket of more than 20 amps (12V input) or 10 amps (24V input) is required for full output, reduced in proportion to the actual load.

'3 wire' versions' (and the SM2730/32 with cigar plug removed) are designed to be permanently installed with direct connection to the battery. A third low current signal lead taken to the battery positive via a switch turns the **HANDY MAINS** on and off. The **HANDY MAINS** may be mounted on a flat surface using the mounting bracket kit **SM 2791**.

**BATTERY DRAIN:** A figure of 1 amp (12V input) or 0.5amp (24V input) for every 10 watts of output load is a good guide. Intermittently used power tools will not significantly drain the battery, but anything used continuously could.

**CAUTION:** This adaptor is supplied on the basis of the user determining the suitability for the purpose for which it is to be used. Do not use in a moving vehicle without the consent of the vehicle manufacturer. Do not use for aviation or marine applications without our written agreement. Do not use for life dependent applications. The negative input lead is connected to case and output ground making the unit suitable only for negative earth systems.



### SPECIFICATION:

#### INPUT

	12V TYPES	24V TYPES
Battery:	12V nominal.	24V nominal.
Voltage Range:	11V - 15V.	22V - 30V.
Current, No Load:	0.4A	0.2A
Per 10W loading:	1 A	0.5A
Remote On/Off:	The units draw <1mA until the on/off control input is connected to battery positive.	

#### OUTPUT

Output Voltage:	230V $\pm$ 10% RMS, 1.1A max.
Frequency:	50Hz nominal, 48Hz to 53Hz.
Output Wave Form:	Quasi sine wave.
Capacitive load:	0.47uF maximum.
Power, Nominal:	200 Watts continuous (resistive).
Power, Short term:	250 Watts for 5 minutes.
Protection:	Current and temperature limit. Internal battery fuse for surge.

#### GENERAL

Size:	45mm x 141mm x 94mm.
Weight:	0.8 Kg.
Storage Temperature:	-40 to +70C.
Operating Temperature:	-40 to +35C.

We manufacture a wide range of DC-DC converters, DC-AC (mains) inverters and many other power systems.

We specialise in the custom design of Hydrogen Stack converters up to 10KW.

Made in the UK.

We reserve the right to change the specification without notice.

Document 2711-993