



## 200W INVERTER, 24V DC INPUT, 230V AC OUTPUT. ISOLATED INPUT FOR POSITIVE OR NEGATIVE SYSTEMS.

SM 3050 UK OUTLET.

SM 3051 IEC OUTLET.

SM 3052 SHUKO OUTLET.

SM 2791 MOUNTING BRACKET KIT .



**GENERAL.** These economic power adaptors convert 24V battery voltage to UK mains level voltage, for powering computers, printers, etc. The units have an output power of 250 watts short term, with surge handling up to 500 watts.

Continuous available power, quoted as 200W, is limited automatically by case temperature. If the unit becomes too hot, the unit will latch off until reset (when cool).

Actual continuous power depends on mounting attitude, ventilation and ambient temperature, but 200 watts is guaranteed in a 35C ambient. Output, indicated by a neon, is by standard outlet sockets, see model list..

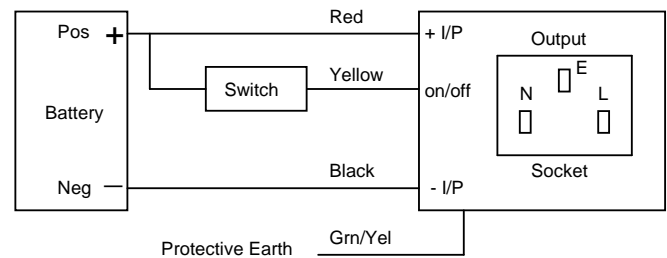
These versions of HANDY MAINS are designed to be permanently installed with direct connection to the battery. A yellow control wire is provided to turn the unit on/off by connection to positive input. The unit may be mounted on a flat surface using mounting kit SM 2791

**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. Maximum allowable live to neutral capacitance is 0.5 microfarads.

**CONNECTION:** Connection is as follows: - The green/yellow wire is taken to protective earth, the red wire is taken to battery positive and the black wire connects to battery negative. The yellow wire is switched to positive for on/off

control. The unit has an internal safety link in the negative lead but the supply must be fused at source.

The case of the unit and the output socket Earth pin are connected to the Green/Yellow Protective Earth wire.



### SPECIFICATION

**OUTPUT:** 240V AC RMS NOMINAL, 216 TO 255 V RMS over continuous load range up to 1.1 amps. Crest voltage will vary within safe limits in proportion to input voltage. Output is a stepped quasi sine wave. Continuous output power is limited by case temperature. Minimum guaranteed continuous output power available is 200 watts up to 35C ambient temperature, with 200 watts available up to 45C if care is taken with mounting, ventilation etc. The unit can supply 250W short term, with a surge capability of 500W.

Note: The output is suitable for use with most equipment, but is limited to a maximum live to neutral capacitance of 0.47 uF. Such capacitance is often found in mains filters which are best removed. Consider this if plugging in several appliances.

**INPUT:** 22V to 33V DC continuous, 21.6V to 36V for 10 seconds. Input current is about 0.5 amp for every 10 watts of load. The HANDY MAINS will draw about 0.3A unloaded.

**SELF PROTECTION SYSTEM:** Over-current protection is provided, so that if plugged into unsuitable equipment, the HANDY MAINS will not be damaged. The HANDY MAINS when used in accordance with these instructions cannot damage any appliance.

**WARNING:-** These units only support the use of 2 wire RCD protectors (non ground-seeking).

Made in the United Kingdom

We reserve the right to change the specification without notice

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