



CUSTOM POWER DESIGN

ELECTRONICS CONSULTANTS PROVIDING CUSTOM DESIGN, DEVELOPMENT, TEST & SUPPORT



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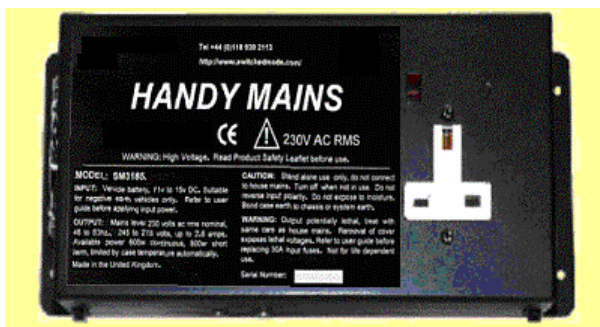
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700 WATT 'HANDY MAINS' INVERTERS (115V AND 230V AC).

OUTPUT SOCKET(S)	48V INPUT	60V INPUT	72V INPUT	84V INPUT
230V, IEC	SM3940	SM3950	SM3955	SM3960
230V, UK + SHUKO	SM3941	SM3951	SM3956	SM3961
230V, SHUKO	SM3942	SM3952	SM3957	SM3962
230V, UK	SM3943	SM3953	SM3958	SM3963
115V, IEC 50Hz	SM4090	SM4093	SM4095	SM4097
115V, IEC 60Hz	SM4091	SM4094	SM4096	SM4098



- VIRTUALLY SILENT USE (FAN ONLY).
- HIGH OUTPUT POWER IN COMPACT SIZE.
- LATEST 'POWER PUSH' © SURGE HANDLING.
- INPUT ISOLATED TO EN60 950.

GENERAL DESCRIPTION. Small wall mounting converters, available with other input and output voltages, generating mains level power, capable of powering most equipment from any 48V, 60V, 72V or 84V battery system (model specific). Models with appropriate sockets are available to suit all countries. The unit is fitted with an on/off switch near the output socket.

The input is ohmically isolated as required by EN60 950. The output is isolated via a safety barrier from the input.

The output is a stepped quasi AC sine wave of nominally 230V RMS with a peak voltage appropriate to European mains. The output is suitable for almost all equipment.

The specification allows for up to 700 watts of continuous power, with up to 5 minutes at 800 watts. New 'power push' technology usually allows operation of equipment drawing a starting surge of over 3 kilowatts.

The battery input is via flat 4 mm screw terminals mounted under the raised body of the unit. The unit may be turned off and on remotely, by a low current control input supplied from battery positive via a small switch.

BATTERY SELECTION: Only heavy-duty (high discharge rate) batteries are suitable. Fully sealed types should be used in enclosed spaces. Ordinary car batteries are only suitable in well-ventilated areas.

SPECIFICATION:

INPUT

Battery:	48V, 60V, 72V and 84V Nominal.
Voltage Range:	Nominal – 11.7% to +16.7%
Power, No Load:	6W.
Efficiency (approx):	90% (Resistive Load).

OUTPUT

Output Voltages:	230V ± 15V RMS from inverter. 115V ± 7.5V RMS from inverter.
Frequency:	Nominal, -2Hz to +3Hz.
Output Wave Form:	Quasi sine wave.
Capacitive load (max):	2.0uF (230V). 4.0uF (115V).
Power, Nominal:	700 Watts continuous (resistive).
Power, Short term:	800 Watts for 5 minutes.
'Power Push' onset:	>12A (230V), >24A (115V).
Protection:	Current and temperature limit.

GENERAL

Size:	64mm x 260mm x 103mm.
Weight:	1.55 Kg.
Storage Temperature:	-40 to +70C.
Operating Temperature:	-40 to +35C.
Manufacturer:	Made in the United Kingdom.

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. Total Live to Neutral load capacitance must not exceed 2.0 micro Farads.

We reserve the right to change the specification without notice

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