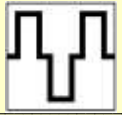


CUSTOM POWER DESIGN

ELECTRONICS CONSULTANTS PROVIDING CUSTOM DESIGN, DEVELOPMENT, TEST & SUPPORT



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A DIVISION OF SMET LTD

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700 WATT 230V OUTPUT BACKUP SYSTEMS.

MODEL	BATTERY	SOCKETS	MODEL	BATTERY	SOCKETS
SM4390	96 Volts	2 x UK.	SM4400	160Volts	2 x UK.
SM4391	96 Volts	2 x SHUKO.	SM4401	160Volts	2 x SHUKO.
SM4393	110 Volts	2 x UK.	SM4403	220 Volts	2 x UK.
SM4394	110 Volts	2 x SHUKO.	SM4404	220 Volts	2 x SHUKO.
SM4396	125 Volts	2 x UK.	SM4406	320 Volts	2 x UK.
SM4397	125 Volts	2 x SHUKO.	SM4407	320 Volts	2 x SHUKO.



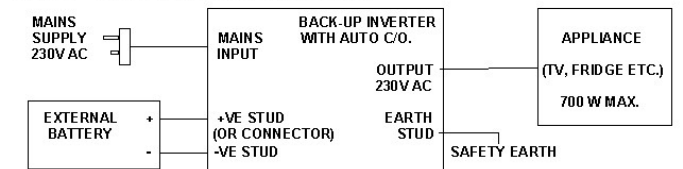
- **AUTO CHANGE OVER WHEN POWER FAILS.**
- **RUNS MICROWAVES AND SMALL FRIDGES.**
- **HIGH OUTPUT POWER IN COMPACT SIZE.**

GENERAL DESCRIPTION: These static inverters convert battery power into a 230V AC RMS 50 Hz supply suitable for operating domestic appliances, small power tools, etc. They are particularly suitable for small refrigerators and microwave ovens because of their high surge capability. They can be permanently connected to 230V AC mains and will automatically change over to battery operation when the mains fails. The nominal continuous power rating into a resistive load is 700 watts, with intermittent operation at 800 watts.

When the mains input socket is connected to functioning mains, it supplies the connected appliance. The battery function may be switched off by the switch on the front face, disabling automatic change-over. The ac input may be directly switched to the output, by-passing the unit.

BATTERY SELECTION: Only heavy-duty (high discharge rate) batteries are suitable as a power source. Fully sealed types should be used in enclosed spaces (especially inside the home).

FIGURE 1 CONCEPT AND CONNECTION DIAGRAM.



SPECIFICATION:

INPUT

Battery: 96, 110, 125, 160, 220, 320V nominal.
Voltage Range: Nominal, -13.2%, +15%.
Power, No Load: 12W
Efficiency: 85% typical.
AC Input Voltage: 230V AC.

OUTPUT

Output Voltage: 230V ± 10% from inverter (or straight through mains).
Frequency: 50Hz nominal, 48Hz to 53Hz.
Output Wave Form: Quasi sine wave.
Power, Nominal: 700 Watts continuous (resistive).
Power, Short term: 800 Watts for 5 minutes.
Protection: Current and temperature limit.

GENERAL

Size: 170mm x 270mm x 180mm.
Weight: 7.4 Kg.
Storage Temperature: -40 to +70C.
Operating Temperature: -40 to +45C.
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 maker. Do not use for aviation or marine applications without written agreement. Do not use for life dependent applications. We reserve the right to change the specification without notice.

Document 4390-993

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.