



CUSTOM POWER DESIGN

ELECTRONICS CONSULTANTS PROVIDING CUSTOM DESIGN, DEVELOPMENT, TEST & SUPPORT



Tel: + 44 (0)118 983 1222

A DIVISION OF SMET LTD

www.custompsudesign.com

Unit 1, The Forge, Reading Road, Burghfield Common, Reading. RG7 3BL.

custom@custompsudesign.com

700 WATT 115V OUTPUT BACKUP SYSTEMS.

MODEL	BATTERY	SOCKETS	MODEL	BATTERY	SOCKETS
SM4430	96 Volts	2 X IEC, 50Hz	SM4436	160Volts	2 X IEC, 50Hz
SM4431	96 Volts	2 X IEC, 60Hz	SM4437	160Volts	2 X IEC, 60Hz
SM4432	110 Volts	2 X IEC, 50Hz	SM4438	220 Volts	2 X IEC, 50Hz
SM4433	110 Volts	2 X IEC, 60Hz	SM4439	220 Volts	2 X IEC, 60Hz
SM4434	125 Volts	2 X IEC, 50Hz	SM4442	320 Volts	2 X IEC, 50Hz
SM4435	125 Volts	2 X IEC, 60Hz	SM4443	320 Volts	2 X IEC, 60Hz



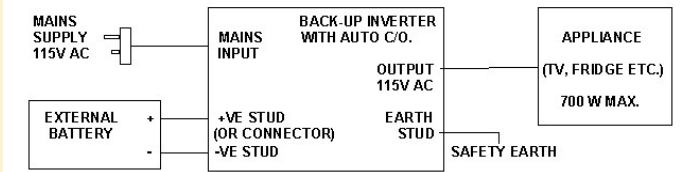
- **AUTO CHANGE OVER WHEN POWER FAILS.**
- **RUNS MICROWAVES AND SMALL FRIDGES.**
- **HIGH OUTPUT POWER IN COMPACT SIZE.**

GENERAL DESCRIPTION: These static inverters convert battery power into a 115V AC RMS 50Hz or 60Hz 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 115V 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: 115V AC.

OUTPUT

Output Voltage: 115V ± 10% from inverter (or straight through mains).
Frequency: Nominal, -2Hz to +3Hz.
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 based on 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 4430-993

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.