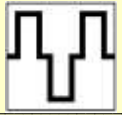




CUSTOM POWER DESIGN

ELECTRONICS CONSULTANTS PROVIDING CUSTOM DESIGN, DEVELOPMENT, TEST & SUPPORT



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A DIVISION OF SMET LTD

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700 WATT 115V OUTPUT BACKUP SYSTEMS.

CONTINUOUS POWER EVEN DURING HOURS OF MAINS FAILURE.

MODEL	BATTERY	SOCKETS	MODEL	BATTERY	SOCKETS
SM4410	12 Volts	2 X IEC, 50Hz	SM4416	36 Volts	2 X IEC, 50Hz
SM4411	12 Volts	2 X IEC, 60Hz	SM4417	36 Volts	2 X IEC, 60Hz
SM4413	24 Volts	2 X IEC, 50Hz			
SM4414	24 Volts	2 X IEC, 60Hz			



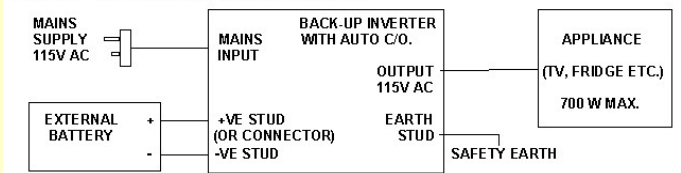
- **AUTO CHANGE OVER WHEN POWER FAILS.**
- **RUNS MICROWAVES AND SMALL FRIDGES.**
- **HIGH OUTPUT POWER IN COMPACT SIZE.**
- **CONTROLLED SURGE HANDLING.**

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.

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). Ordinary car batteries are only suitable in well ventilated areas.

FIGURE 1 CONCEPT AND CONNECTION DIAGRAM.



SPECIFICATION:

INPUT

Battery: 12V or 24V or 36V nominal.
 Voltage Range: Nominal, -11.7%, +16%.
 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: 3.4 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. The negative input lead is connected to case and output ground making the unit suitable only for negative earth systems. We reserve the right to change the specification without notice.

Document 4410-993

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.