



# PDS Design Solutions Limited

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## 700 WATT 230V OUTPUT BACKUP SYSTEMS.

CONTINUOUS POWER EVEN DURING HOURS OF MAINS FAILURE.

MODEL	BATTERY	SOCKETS	MODEL	BATTERY	SOCKETS
SM4370	12 Volts	2 X UK	SM4376	36Volts	2 X UK
SM4371	12 Volts	2 X SHUKO	SM4377	36 Volts	2 X SHUKO
SM4373	24 Volts	2 X UK			
SM4374	24 Volts	2 X SHUKO			



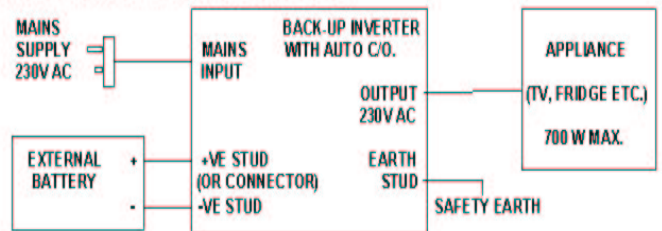
- **AUTO CHANGE OVER WHEN POWER FAILS.**
- **RUNS MICROWAVES AND SMALL FRIDGES.**
- **HIGH OUTPUT POWER IN COMPACT SIZE.**
- **CONTROLLED SURGE HANDLING.**

**GENERAL DESCRIPTION:** These static inverters convert battery power into a 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.

**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:	230V AC.

#### OUTPUT

Output Voltage:	230V $\pm$ 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:	3.4 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. The negative input lead is connected to case and output ground making the unit suitable only for negative earth systems unless isolation is requested at time of purchase. We reserve the right to change the specification without notice.