

Static Inverters

SafePower

SafePower provides a mini static inverter power supply for the operation of a wide range of mains voltage lighting equipment (eg mains voltage GLS and compact fluorescent lamps, small HID, LED etc). SafePower is supplied with a robust enclosure and utilises high quality 5 year life Valve Regulated Lead Acid batteries. The mini static inverter can be supplied with maintained outputs or used solely as a standby supply.

The maximum rated loads are based on the full circuit VA of the equipment connected (eg a 3 watt LED connected to a typical mains driver will have a circuit load of approximately 7VA).

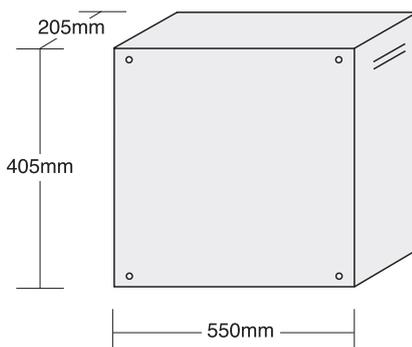
OPERATION

SafePower can be used for maintained operation of the mains voltage equipment depending on type and rating of the load. The unit offers a 220/240 volt 50Hz output with 3 hour duration for any mains voltage load up to 110VA.

SafePower incorporates long-life Valve Regulated (sealed) Lead Acid batteries. These are charged from a high quality constant voltage battery charger which includes a battery low-voltage disconnect circuit to protect the battery from deep discharge.

The mains voltage output is created via a solid state step-up inverter circuit with Pure Sine Wave output. SafePower is designed to comply with the relevant safety sections of BS EN50171 and BS EN 60598.2.22.

Loads should be connected directly to the maintained SafePower units. If a SafePower unit is to be used to back-up equipment already connected to a separate mains supply then the two incoming supplies (mains and SafePower) must be segregated by a change-over relay like the ELP SIM240.



All details and specifications shown in this document are deemed correct at time of publication. The right to modify equipment, change specifications and instructions without notice, is reserved as part of the Emergency Lighting Products Limited policy of continuous development and improvement. We endeavour to keep all our customers informed of any alterations as and when they occur.

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OUTLINE SPECIFICATION

MAINS INPUT	
Nominal input voltage	230V ±10%
Nominal input frequency	50Hz ±5%
Power consumption	Non-maintained = 60W maximum Maintained = 159W maximum with a full maintained load of 99W
BATTERY	
Type	5-year design life valve regulated lead acid (VRLA)
Voltage	12V
Ampere-hour capacity	60AH (20 hour rate to 1.75 volts per cell at 20°C) comprised of 5 x 12V 12AH monoblocs connected in parallel
INVERTER INPUT	
DC input voltage	12V nominal
DC input voltage range	10 to 15V DC
Low battery alarm	10.5V ±0.5V
Low battery shut-down	10V ±0.5V
INVERTER OUTPUT	
Nominal output voltage	230V AC
Regulation	±10%
Inverter output frequency	50Hz ±1%
Inverter wave shape	'PS' Pure sinewave
Rating	110VA Maximum 99W Maximum
Load power factor	0.8 inductive - 0.8 capacitive within its maximum VA and Watts ratings
Over temperature protection	55°C ±5°C
Overload protection	Yes
Short circuit protection	Yes
GENERAL	
Cubicle type	Wall Mounting (IP20)
Inverter efficiency	90% at full load
Noise	<60dBA at 1 metre
Temperature range	18°C - 25°C

ORDER CODE	DESCRIPTION
PS/150/M3	Maintained - max. load 110VA for 3 hours (Pure Sine)