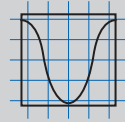


THX ES10W

SELF-TESTING UPS SYSTEM FOR 230VAC DEVICES OR LAMPS UP TO 10W



COSINE DEVELOPMENTS
LEADERS IN LIGHTING TECHNOLOGY



OVERVIEW:

- > Auto. self-testing feature with audible and visual status
- > Emergency lighting kit for 230Vac lamps from 3 to 10W
- > 100% emergency lighting for 45 mins to 3 hours
- > 7.4V 2400mA li-ion battery
- > Maintained or non-maintained operation
- > 5 year warranty

PRODUCT DESCRIPTION:

The THX_ES10W provides emergency operation for one hour duration on using 230V ES, GU10 or 230Vac device up to 10W load. Lamps will deliver 100% light output in emergency mode. This level of light output means that the THX_ES10W becomes a perfect choice when high output emergency lighting is required to provide good visibility for emergency situations in an exterior or interior application when using a single ES or GU10 lamp.

This emergency lighting control unit incorporates a self testing facility that exercises the batteries and establishes lamp condition on a regular basis. Automatic tests are conducted monthly with full functional tests every 6 months. The monthly tests, of two minute durations, establish battery and lamp condition whilst the 6th month tests last 40 minutes to remove battery memory effects. System faults are reported via both audible and visual means.

A safety start circuit is provided that prevents emergency operation until mains is connected. This enables installation without disconnecting or depleting the battery. A red pilot light indicates that the batteries are being charged. The unit is housed in a plastic case, which includes a wiring connection diagram.

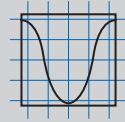
FEATURES:

- > Automatic tests reduce maintenance requirements.
- > Single unit construction for reduced wiring requirements.
- > Satisfies SABS 1464 Part 22.

SPECIFICATIONS	
Battery Type	7.5V Ni-Cad
Dimensions (L x W x H)	250 x 45 x 35mm
Emergency Lighting Duration	minimum 45 minutes
Lamp Type	230Vac load up to 10W
Mains Voltage	100 - 253Vac 50/60 Hz
Maximum Ambient Temperature	+70°C
Output Voltage	300Vdc

THX ESIOW (CONTINUED)

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OVERVIEW:

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- > 5 year warranty

PRODUCT DESCRIPTION:

The indicating lamp reports the status of the batteries and the lamp by flashing at different intervals. An audible alarm emits a beep every hour of five seconds duration if a system fault is detected. The built-in computer establishes whether the lamp is faulty, the battery voltage is low (shorted cell) and if the batteries have lost capacity due to ageing. The user can now be aware of any problems with the emergency lighting system before power failures and not during them. The periodic use of the batteries also prolongs their life.

The built-in computer also prohibits deep discharging of the batteries. This type of inverter is now becoming mandatory in Europe because users' needs some guarantee that the emergency lighting is always fully functional.

The inverter satisfies the requirements as defined in SABS 598-1 (Luminaires: General requirements and tests) and will satisfy SABS 1464 PART 22 (Safety of luminaires: Luminaires for emergency lighting).

FAULT TYPE	LED CODE		BUZZER
Mains is on and the system is OK	No flashing, LED continuously burning	●●●●●●●●	Off
Battery voltage low	Continuous flashing	●○●○●○●○	Beep every hour
Low capacity battery	Two flashes followed by a pause	●○●○●○●○	Beep every hour
Lamp fault	One flash followed by a pause	●○●○●○●○	Beep every hour
No mains	LED off	○●○●○●○●	Off

NOTES:

The unit may be installed without the buzzer connected if necessary.

Only connect the batteries after a permanent supply is established i.e, do not switch the unit on and off with the batteries connected during installation as this may cause damage and false error reporting.

Faults may be cleared by switching off the permanent mains supply and temporarily disconnecting the batteries. This action will reset the internal computer chip.

After corrective action i.e, replacing faulty lamp or batteries, faults should automatically clear after the next scheduled test.

Never attempt to replace the lamp during a self-test or whilst the unit is in emergency mode. This action may cause damage and false error reporting.