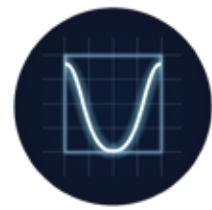


FLUORESCENT LAMP EMERGENCY KITS:

PLX

EMERGENCY KIT FOR 2 PIN COMPACT FLUORESCENT LAMPS



COSINE DEVELOPMENTS
LEADERS IN LIGHTING TECHNOLOGY

DESCRIPTION

This maintained inverter can be used for two pin compact fluorescent lamps from 5 to 16W. It is possible to use this unit where two 9W lamps are powered from one ballast. One hour or three hours of emergency lighting is provided.

6V Ni-Cad or 7.4V Li-ion batteries can be used with the 5, 9, 11, 13 and 2D16W lamps. No changes to the inverter are necessary for any of the above combinations. The inverter's small external dimensions make it suitable for small luminaires.



TECHNICAL DATA

BATTERY TYPE	7.2V Ni-Cad 7.4V Li-ion
CHARGING CURRENT	100mA (200mA)
COLD LAMP STARTING	>5V
CURRENT CONSUMPTION	1 - 1.4A
DIMENSIONS	154 x 53 x 30mm
LAMP TYPES	5, 9, 11, 13 and 2D 16W (2 pin CFLs)
LIGHTING DURATION	1 hour (3 hours)
MAINS VOLTAGE	100 - 253Vac 50/60Hz
MAXIMUM OPERATING TEMPERATURE	+70°C
POWER CONVERSION EFFICIENCY	>5V
QUIESCENT CURRENT	< 20µA
WEIGHT	150g

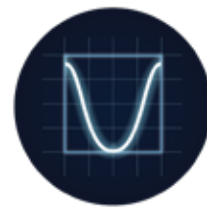
FEATURES

- > 40 - 100% emergency lighting (1 - 3 hours)
- > Maintained or non-maintained operation
- > Emergency lighting kit for 2 pin CFLs
- > 5 year warranty on inverter

A safety start circuit is provided that prevents emergency operation until mains is connected. This enables installation without disconnecting or unnecessarily depleting the batteries. A pilot light is provided to indicate that the batteries are being charged and that they are in a healthy condition. Deep discharge protection is provided.

The unit is available in both covered and open circuit board configurations. A remote box option is available if high temperatures or small dimensions within the proposed luminaire will result in poor reliability or an illegal installation (i.e., in contravention of SABS Specifications) but wiring between inverter and lamp must be less than three meters.

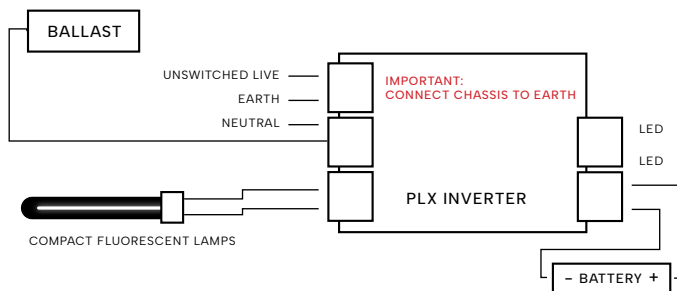




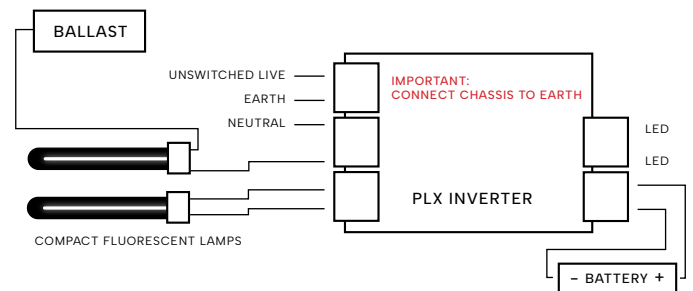
COSINE DEVELOPMENTS
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WIRING DIAGRAM

PLX INVERTER: SINGLE LAMP



PLX INVERTER: 2 LAMPS FROM 1 BALLAST



PERFORMANCE:

LAMP TYPE	LIGHT OUTPUT (MAINS)	BATTERY CURRENT	APPROX. DURATION
2D16W	40%	1.1A	1.8 hours
13W	60%	1.1A	1.8 hours
11W	70%	1.1A	1.8 hours
9W	80%	1.0A	2 hours
7W	100%	1.0A	2 hours

Note 1: Luminaire/emergency gear compatibility must be ascertained before use. Lamp starting must be tested in non-maintained mode (i.e., lamp off whilst charging) using a fresh battery pack. All metal surfaces in the luminaire must be connected to the "EARTH" terminal to assist starting. For best operation only bulkhead type fittings, where the lamp is parallel to a metal surface, should be used for both maintained and non-maintained modes. No restrictions apply to sustained operation (i.e., where the lamp is permanently on).

Note 2: The emergency lighting duration may vary due to cell temperature and lamp type as well as cell manufacturer.

Note 3: Any version can be ordered with a standby switch option. This feature enables the emergency light function to be inhibited during a power failure thereby conserving battery energy. The standby switch cable must be no longer than two meters.

