

**EMERGENCY BOX-100/ EMERGENCY BOX-150**

Emergency converter for LED luminaires with internal driver that are fed directly from the network. Suitable for led luminaires of 100w maximum power or 150w maximum, depending on the model. Specially designed for LED highbay and projectors.

**Technical Features:**

- Power: 230V~ 50/60Hz
- Input current (100W model): 514mA (AC) in maintained model. Non maintained mode: 97mA (AC).
- Battery charging current: 627-600mA
- Battery re-charging time: 24 hours.
- Maintained and Non Maintained model.
- Green Led voltage indicator of network OK.
- Test button incorporated.
- Output Voltage: 230V (AC on network / DC in emergency).
- Output current: Automatically adjusted
- Output Power: 100W maximum or 150W maximum, depending on the model.
- Li-Ión battery 37V-4400Ah (100W model) and 37V-5200mAh (150W model). (It is advisable to change after 2 years of operation).
- Autonomy: >1 hour
- Final voltage of battery discharge: 30VDC.
- Maximum load protection voltage: 42VDC.
- Ambient temperature: 0-50°C
- Max temperature of body: 55°C
- Test button incorporated
- Class I device.
- IP65
- Cable glands for cable entry and exit, mounted in a box
- Max distance to the LED LAMP: 2m.
- Compact design
- Dimensions: 231x344x116mm
- Weight: 3,12kg (100W model) / 3,21kg (150W model).
- Surface mounting (wall) or ceiling suspended. Accessories for the box included
- CE marked.

**Working:**

**Power presence:** The device charges permanently the battery and the green led indicating the charging process in ON. In maintained mode, the kit feeds the LED luminaire connected to the output of it with the mains voltage that reaches its input "Lin" and in non- maintained mode the LED LAMP is OFF.

**Power failure:** In case of power failure, the kit enters in emergency mode, the green led indicating the battery charge goes OFF. Maintained mode, the kit continues to aliment the internal driver of the LED LAMP with battery power (DC-DC conversion). Non maintained mode: The Kit illuminates the LED LAMP same as indicated above. The autonomy greater than 1 hour.

**Verification TEST:** Pressing the test button of the kit, even when the network is present, switches to the emergency state, feeding the LED luminaire from the battery and the green indicator LED goes off. When releasing the pulse, it leaves the state of emergency and returns to normal operation with a network, the green indicator LED illuminating.

**Installation:**

- Please refer to the connection diagrams on this page for connection and follow the following steps.
- Verify that the installation is 230v 50/60 Hz and the LED lamp with internal driver to be connected to KIT can work on 230VDC.
- Switch OFF the power to make the installation.
- Mount the accessories in the box as it is to be installed suspended from the ceiling or screwed into the wall.
- In suspended mounting use a chain and hang the roof box. In surface mounting screw the 4 anchoring plates of the box into the wall.
- The LED luminaire to be installed must be hung from the ceiling or fixed to the wall before making the wiring and placed as close as possible to the converter box.
- Open the lid of the box by removing the 2 screws from the side.
- Insert the cable hose of the network (4 wires) through the cable gland on the right and the cable hose of the LED luminaire through the cable gland on the left. Tighten them.
- Connect the cables to the 6 terminal strip terminal, according to the connection diagram. The inlet hose has 4 wires. The ground connection, the neutral (N), the line (L) that has to be permanent so that the battery is always in charge and the line with switch (Lin) that turns on and off the LED luminaire. The line (Lin) has to be the same phase as the line (L).
- Connect the battery to the connector on the electronics board, checking the indicated polarity.
- Close the lid of the box and screw its 2 screws.
- Connect the mains supply of the installation and verify that the indicator LED lights up. In permanent mode if the switch connected to (Lin) is ON, the LED luminaire is on.

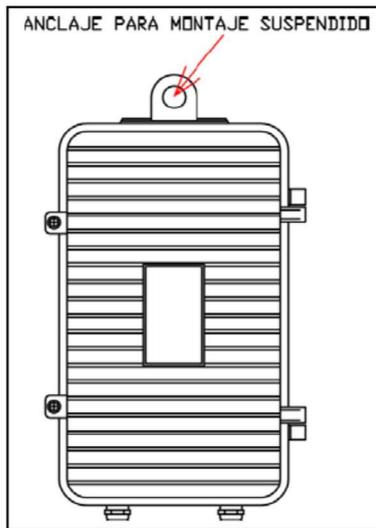
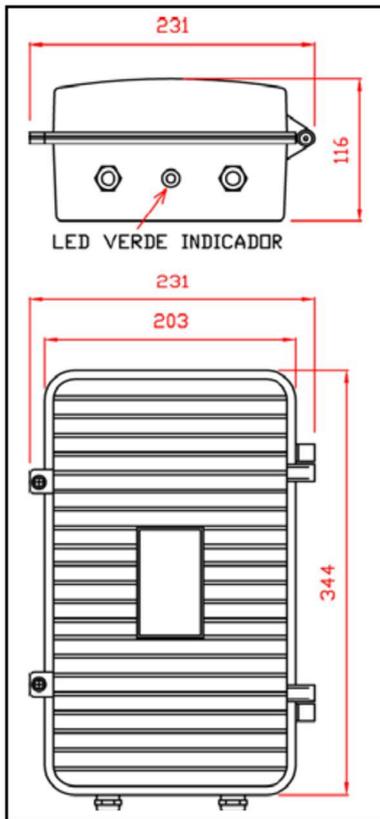
**Attention!!!**

It is not convenient to leave the battery connected in the kit, if it is not connected to the network. The electronic circuit at rest has a small consumption that over time discharges the battery excessively and this is harmful to it. In case of stoppage of the installation for a long period or storage, disconnect the battery.

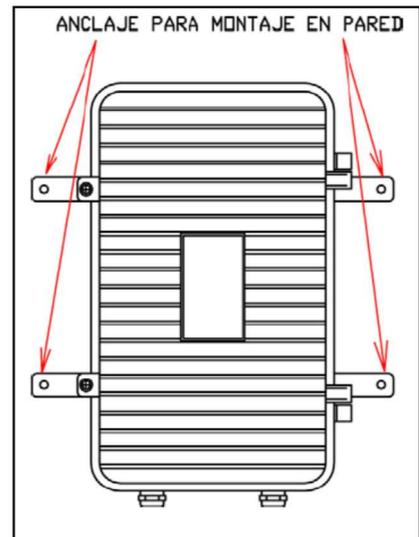
**Maintenance:**

The manipulation and the installation of the kit should be done by qualified technicians. Always verify that the Voltage of the Mains is adequate to the input voltage of conversor. Before installation make sure the mains is OFF and the battery is disconnected. The Li-Ión battery must be replaced when the kit provides a lower autonomy to 1 hour and record the installation date. In normal use it is advisable to change the battery at 2 years. It is advisable to do a verification test by several times a year, to see that the kit works well in emergency and the battery is properly charged. The old battery should be recycled in a proper way, as it can be harmful for the environment.

**Dimensions:**

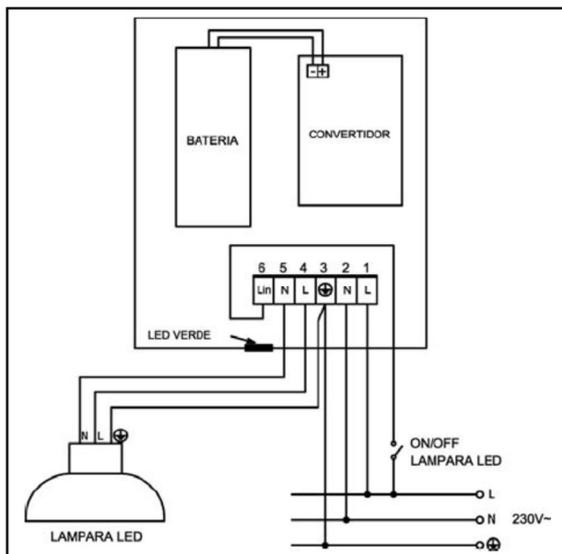


Suspended mounting with chain

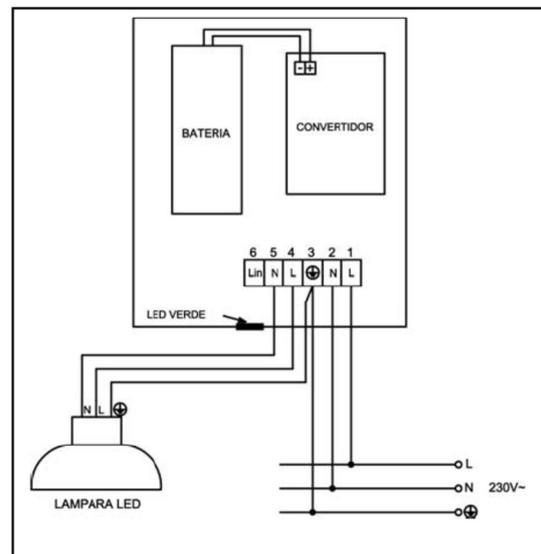


Surface mounting (wall) with 4 screw

**Connection Diagram:**



MAINTAINED (ON/OFF switch of LED LAMP)



NON MAINTAINED

