

LED EMERGENCY CONVERSION KIT



Model: UNI LED 3/60 4500 and UNI LED 60/120 4500

Universal emergency conversion kit for Universal LED luminaires. Equipped with an internal controller that it regulates automatically the output voltage and current to any LED luminaire with working voltage from 6-60V (model 3/60 4500) and from 60-120V (model 60/120 4500). The device is configured automatically adjusting an output current emergency from 600 to 60mA for a working voltage of the LED luminaire (between 6 to 60V) for 3/60 4500 model and from 60 to 30mA for a working voltage of the LED luminaire (between 60 to 120V) for 60/120 4500 model.

The battery charging circuit has intelligent automatic charging function.

The kit can be connected as MAINTAINED/NON MAINTAINED (interconnected with led driver) and is adapted for constant current & constant voltage drivers.

In small power led luminaires in emergency mode, will maintain the level of illumination provided by the driver, but in models with higher power the output will be lower.

Characteristics:

- Supply 220-240V 50/60Hz
- Input current: 40mA
- Input power: 4W.
- Maintained/Non maintained operation.
- LED indicating the battery charge.
- Battery charge current: 200mA initial-61mA final (charged battery).
- Battery charging 24 hours.
- Output voltage: 6-60VDC (3/60 4500 model)/ 60-120VDC (60/120 4500 model).
- Output current: 600mA to 60mA (3/60 4500 model)/ 60Ma to 30mA (60/120 4500 model).
- Output power: 4,5W.
- Emergency output voltage (no-load): 65V (3/60 4500 model) / 125V (60/120 4500 model).
- Battery Ni-Cd 3,6V 4500mAh.
- Autonomy 3 hours.
- Protection against overloading and end of battery discharge.
- Grade IP20.
- Class II device.
- Ambient temperature: 0°C.... +50°C.
- Max temperature TC: 70°C.
- Verification test via test button (optionally).
- Max cross section of cable to be connected 0,75 mm².
- Installation in artificial ceiling or inside the luminary.
- Manufactured in accordance to norms UNE-EN 61347-2-13

Table of working parameters in emergency mode in different LED luminaires (model 3/60 4500):

LED Luminary	Output voltage (lamp)	Output current (lamp)	Output power W	Battery	Battery discharge current.
Luminary 2 LED series	6,85 VDC	565,9 mA	3,87 W	3,6 VDC	1514 mA
Luminary 3 LED series	9,26 VDC	429,6 mA	3,97 W	3,6 VDC	1516 mA
Luminary 6 LED series	16,85 VDC	248,4 mA	4,18 W	3,6 VDC	1512 mA
Luminary 9 LED series	25,01 VDC	170,8 mA	4,27 W	3,6 VDC	1524 mA
Luminary 12 LED series	32,65 VDC	131,5 mA	4,29 W	3,6 VDC	1515 mA
Luminary 15 LED series	40,25 VDC	105,7 mA	4,25 W	3,6 VDC	1514 mA
Luminary 18 LED series	55,70 VDC	75,1 mA	4,18 W	3,6 VDC	1514 mA
Luminary 21 LED series	61,26 VDC	68,6 mA	4,20 W	3,6 VDC	1514 mA

Working:

Power presence: The device charges permanently the battery and the green led indicating the charging process in ON. In maintained mode, the driver of the luminary connected to the kit lights the lamp and in non maintained mode the luminary is OFF.

Power failure: In case of power failure or low voltage, the kit enters in emergency mode, the green led indicating the battery charge goes OFF. In maintained mode, the kit disconnects the driver and illuminates the led lamp with battery power regulating automatically the power. In non maintained mode, the Kit illuminates the luminary, regulating automatically the power. Autonomy greater than 3 hours.

Verification Test: By connecting a TEST PUSH button & pressing it, the kit enters in emergency model during power presence, its returns to normal mode as soon as the On button is released. Please refer to connection diagram.

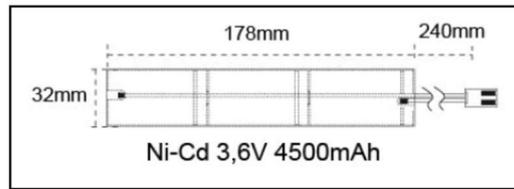
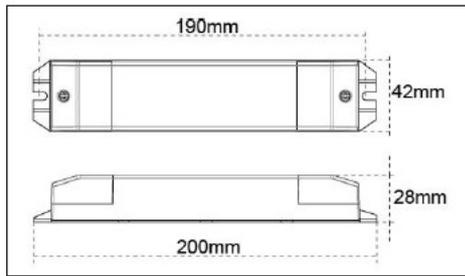
Installation:

- Please refer to the connection diagrams on this page for connection and follow the following steps.
- Switch OFF the power to make the installation.
- Connect the LED luminary to the connectors of the KIT (Led LAMP) make sure the polarity.
- Connect the output of the external Driver of the Luminary to the KIT, make sure the polarity indicated (Maintained mode)
- Connect the input of the external driver of the luminary to the kit, according to the connection diagram (Maintained mode)
- Connect the power line (L, N), this line must be permanent so the battery is always charged. If this power is cut off the equipment will go into a state of emergency.
- Connect the cable with LED indicated the battery charging to the connector in KIT, This LED should be installed in the Luminary or near the luminary so that the charging process indication is visible. Drill hole of 6.5 mm to locate the LED support.
- Connect the battery to the connector of KIT verifying the correct polarity. if it is installed inside the luminaire, it must be kept away from the heat sources
- Switch ON the main power and verify that the LED indicating the battery charging is ON.

Maintenance:

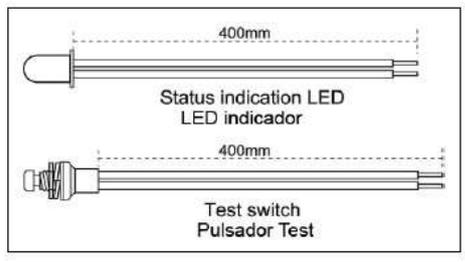
The manipulation and the installation of the kit should be done by qualified technicians. Always verify that the Voltage of the Mains is adequate to the input voltage of KIT. Before installation make sure the mains is OFF and the battery is disconnected. The Ni-Cd battery has a life cycle of 4 years or 400 charging cycles, after this, it should be substituted and date of substitution should be notified. The old battery should be recycled in a proper way, as it can be harmful for the environment.

Dimensions:

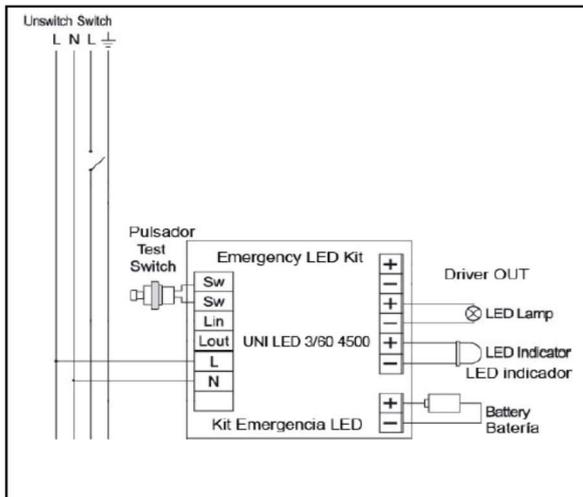


Weight: 140gr.

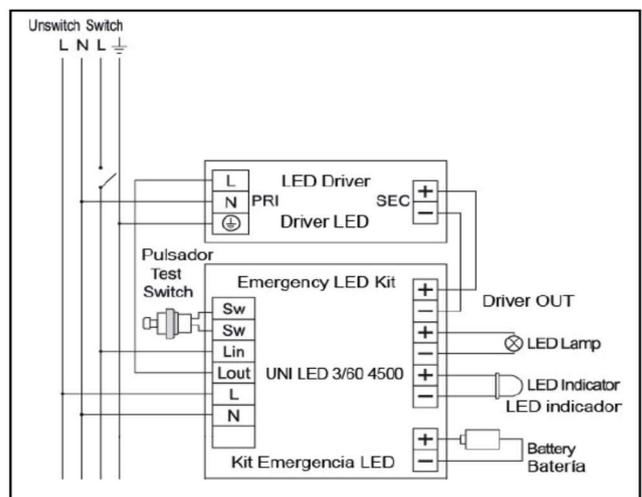
Weight: 412gr.



Connection diagrams:



Non maintained



Maintained