



# LELL SERIES

## EMERGENCY LIGHTING MODULE FOR LED: INSTALLATION GUIDE

The electronic units for emergency lighting are suitable for GU5-3 12V LED lamps. They can be used indifferently for maintained or emergency operation.

All the models have sealed Ni-Cd batteries able to guarantee high efficiency with high temperatures.

The electronic devices can be put on a false ceiling or on a ceiling lamp, module, channel, thus allowing any light spot to be qualified for emergency in a simple and quick way, where needed.

The electronic devices are designed according to EN61347-2-13, EN61347-2-7, EN61547, EN55015, EN60598-2-22, EN61000-3-2, SELV.

### IMPORTANT: always read the present instruction leaflet

- for the wiring please refer to enclosed wiring diagrams
- great attention must be paid to polarity during the installation of the battery
- keep batteries away from heat sources (away from magnetic ballast)
- in order to check the correct functionality we recommend a charging of about 30 hours
- this system is made to be powered only with the supplied batteries: do not connect any external battery charger.
- it is advisable to effect periodically (every 3 months) at least one discharge and charge cycle in order to assure the max efficiency
- replace the batteries every 4 years or after 500 charge/discharge cycles
- before every maintenance operation, disconnect all mains
- this product contains materials which could be toxic if improperly disposed in the environment
- keep this instruction leaflet for any further reference

**ATTENTION:** this unit should only be used for purposes for which it has been intended and should be installed using the instructions which are provided. The manufacturer cannot be held liable for damages to person, animals or objects as a result of improper, unreasonable and wrong usage.

### Technical characteristics:

- supply voltage: 230/240V - 50/60Hz
- supply current: 40mA max  $\cos\phi$  0.5
- max case temperature: 70°C
- ambient temperature: 0÷ 50°C
- recharging time: 24h
- max distance between inverter and lamp: 2m
- terminals max connection size: 1.5mm<sup>2</sup>
- charging device with main insulation able to recharge the battery normally after the test in paragraph 22.3 of the IEC 61347-2-7:2007-09-standard

Mode	Lamp	EBLF	Autonomy	Battery current
LELL1091	GU5-3 - 3 ÷ 10W	100%	1h	1A
	G53 - 3 ÷ 10W	100%		1A
LELL2094	GU5-3 - 3 ÷ 20W	100%	3-1h	2,5A
	G53 - 3 ÷ 20W	100%		2,5A

### CONNECTIONS

#### 1) direct connection to the main (Charge):

connect terminals 1-2 (L - N) to the main that should never be interrupted (battery charging circuit). In case of decrease or blackout of the main, automatically starts working the emergency.

#### 2) Connection SE, emergency only:

connect the lamp to terminals 5 and 6.

#### 3) Connection SA, permanent:

connect the lamp to terminals 5 and 6, connect the 12V output of the power supply to terminals 3 and 4.

#### 4) Led light (indicator):

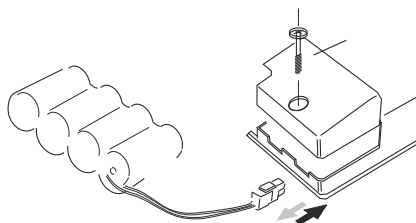
indicates the presence of mains and battery charging. It must always remain connected to the device and should place it in a visible manner on the outside.

#### 5) Battery:

connect the battery to terminal BATT.

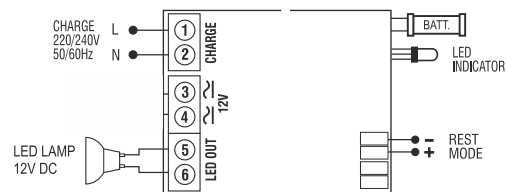
### BATTERY REPLACEMENT

Sealed NiCd batteries. To replace batteries follows the instructions. Use only original batteries. Do not discard in the environment. Return to manufacturer.

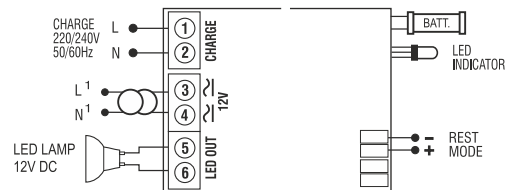


### WIRING DIAGRAMS

#### non-maintained (emergency only)

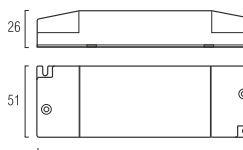


#### maintained with external electronic driver



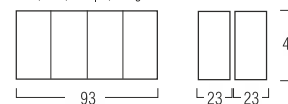
### DIMENSION AND WEIGHT

electronic unit - 0,13Kg

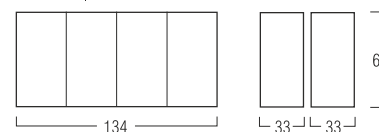


#### batteries:

2 x 4,8V-1,6Ah | 0,45 Kg



2 x 4,8V-4Ah | 1,15 Kg



PRODUCT TO BE DISPOSED  
DIFFERENTLY FROM URBAN WASTE

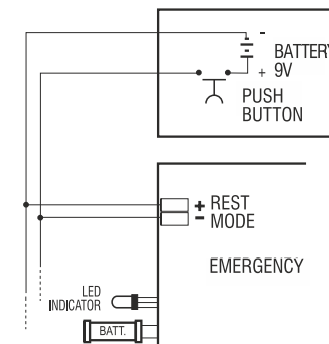
### INHIBITIONS WIRING DIAGRAMS

#### Rest mode

#### PUSH BUTTON AND BATTERY

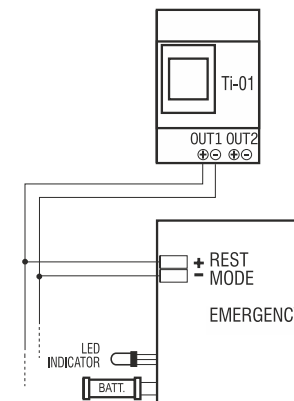
it allows only to switch to "rest mode" during emergency mode, using a remote push button and 9V battery.

The rest mode, in accordance with Standards prescriptions, is automatically resetted when mains voltage is restored.



#### REMOTE CONTROL DEVICE

it allows both to switch off and switch on the emergency lamps during emergency mode. The rest mode is automatically resetted when mains voltage is restored. This remote control device can be installed so as to operate several emergency units at the same time.



AEE Identification nr.IT1804000010321

LEF LIGHTING S.R.L.

Via Rodolfo Morandi, 9/11 - 50019 Sesto Fiorentino (FI) - ITALY | Tel +39 055 421 77 27 - Fax +39 055 425 44 92 | www.lef.it



MADE IN ITALY