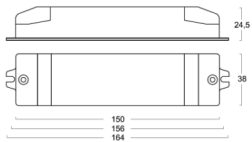




www.lef-lighting.it



**DALI 2
DT1**

The intermittent operation emergency lighting inverters are designed to power LEDs with normal mains voltage (220-240V-50/60Hz), they can be connected for permanent or non-permanent operation, with any type of electronic power supply for LEDs. All models are equipped with hermetic LiFePO4 accumulators capable of guaranteeing high yields even at high temperatures. The inverters can be inserted inside ceiling lights, modules or raceways, thus allowing you to enable emergency, quickly and easily, any light point in the place where it is needed. The electronic devices are built in compliance with the standards: EN61347-1, EN61347-2-7, EN61547, EN55015, EN61000-3-2, EN60598-1 for EMLD, EN 62034 for Auto-test function.

IMPORTANT: ALWAYS READ THE PRESENT INSTRUCTION LEAFLET

- Make the inverter connections according to the diagrams shown here.
- Connect the inverter to battery.
- Place the battery as far as possible from heat sources (especially not close to the inverter or the LED plate).
- The battery, once installation is complete, must be recharged for at least 12 hours for the system to be able to operate with the declared autonomy.
- The system must be powered only with the battery supplied, do not associate with external charging devices.
- Periodically (every three months) carry out at least one battery discharge and recharge cycle to obtain maximum system efficiency.
- Before any maintenance operation, disconnect all power supplies, including the battery.
- Do not disperse the materials contained in the product into the environment.
- Keep this instruction sheet for any further consultation.

ATTENTION: this system is intended exclusively for the use for which it was designed and built. Installation must be performed following the instructions provided in this leaflet. Any other use is to be considered improper and therefore dangerous; the manufacturer declines all responsibility for any damage to persons, animals or things due to the above.



PRODUCT TO BE DISPOSED DIFFERENTLY
FROM URBAN WASTE
AEE identification nr. IT18040000010321



- Supply voltage: **220÷240Vac - 50/60Hz**
- Supply current: **20mA - cosφ 0.4**
- Max case temperature: **65°C**
- Ambient temperature: **5÷50°C**
- Recharging time: **12 h**
- Terminals max connection size: **1.5mm²**
- Connectable to power supply with Vmax and I max at the output **400V / 900mA**

- Charging device with supply is reinforced insulation able to recharge the battery normally after the test in clause 22.3 of the EN 61347-2-7.

DURATION	V LED IN EMERGENCY	I LED IN EMERGENCY
1h	60-200 V	76-20 mA
3h	10-200 V	30-8 mA

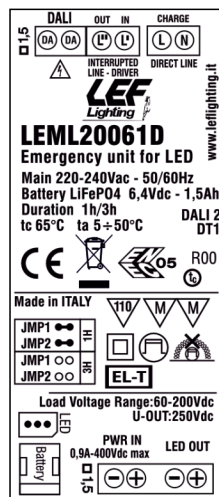
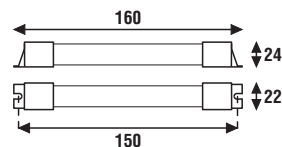
ATTENTION:

- Do not stock battery and kit connected together.
- Keep the battery not connected to the kit until the final installation of the system (luminaire installation).
- To not cause led damage, please connect following this order:
1- LED Source
2- Battery cable
3- Mains connection
- Do not disconnect and connect the LED source during emergency operation.

BATTERY INFORMATION

Battery LiFePO4 **6,4V-1,5Ah**
Recharging time: **12h**
Maximum discharge current: **1000mA**

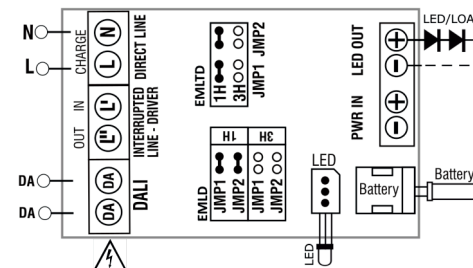
Cod. BAT6415L
6,4V-1,5Ah - 0,09Kg



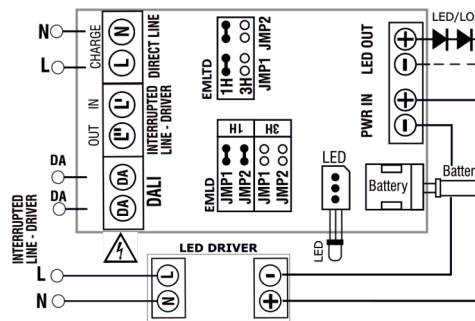
WIRING

- **LED source out** : connect LED source to the OUT terminal (always respect polarity).
- **Battery**: connect battery to battery terminal
- **Direct Line (Charge)**: connect the L - N terminals to the mains which must never be interrupted (battery recharging circuit). If the mains power fails or falls, the emergency automatically starts.
- **Interrupted Line maintained**: connect as shown in the wiring diagram Serie EML o Serie EMLT
- **External driver LED connection - maintained**: Connect the terminal (+) and (-) PWR to external driver (always respect polarity).
- **LED indicator**: shows the presence of mains and battery in charge. It must always remain connected to the device and must be visible once the device is installed
- **Jumper**: possibility to select 1h or 3h of autonomy and jumpers inserted 1h, jumpers removed 3h. The autonomy configuration must be done before connecting the battery.

NON MAINTAINED (EMERGENCY ONLY)



PERMANENT (ORDINARY LIGHTING) ALWAYS ON



AUTOTEST: DALI Emergencies are equipped with a microprocessor which makes them able to carry out diversified checks, periodically, automatically and autonomously. The emergencies are designed to be connected via two-wire BUS to a DALI control unit. In this way a centralized system is obtained for the integral supervision of the whole system. Compliance with IEC 62386-202 standards. The device complies with the EN 62034 standard for automatic verification systems for safety lighting and is classified as Type ER

Factory settings routine:

Function test (FT): It take place every 7 days; the lamp is switched on for 30 seconds and its functionality is checked.

Autonomy test (AT): Every 52 weeks it carry out a test 1 or 3 hours to check battery capacity.

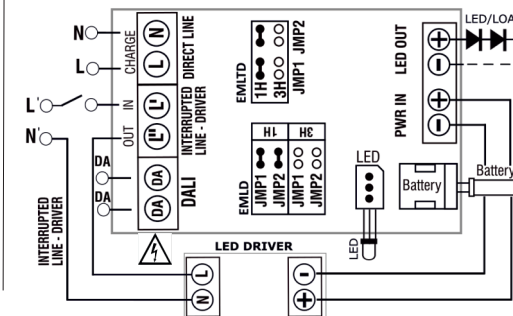
Routine Start-up / Power on after reset :

Recharge for 2 minuts / Function test for 30 sec. / Full Battery Recharge / Duration Test / Full Battery Recharge/ Finished Recharge.

Reset : reset itself if removing mains supply and battery , in this case all the events recorded in the device micro are cancelled

COLOR	LED CONDITION	EMERGENCY STATE
Yellow	Blinking	Charging phase: After first installation After a reset After AT if Pass After FT if Pass After a failure main
Green	Single Blinking	FT in progress
Green	Double Blinking	AT in progress
Green	Fix	Regular operation: FT and AT Pass - Charging completed
Red	Single Blinking	Lamp test failed
Red	Double Blinking	Battery life test failed
-	LED OFF	Main failure-Battery NC

PERMANENT (ORDINARY LIGHTING) WITH SWITCH



LEF LIGHTING S.R.L. | www.lef-lighting.it

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