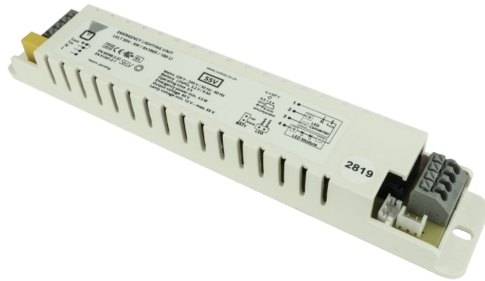


LELT – EMERGENCY LIGHTING DRIVERS



Each emergency lighting driver in the LELT range is designed to facilitate the addition of emergency lighting operation to standard mains luminaires.

LELT drivers are designed in accordance with BS EN 60598-2-22, BS EN 61347-2-7 and BS EN61347-2-13.

For maintained operation LELT drivers must operate in conjunction with the existing drivers in mains luminaires.

In normal mains operation the LED array is powered from the existing mains driver and in emergency operation by the LELT and associated battery.

KEY FEATURES AND BENEFITS

- > Available in 2W, 3W, 3.5W, 5W & 7W versions
- > Basic, Self-Test, DALI2 & Wireless communication options
- > Non-maintained
- > 3-hour emergency operating time
- > 3-pole technology: LED module changeover and delayed power switching for the LED-driver
- > Constant power output in emergency mode
- > Specific charging regime for LiFePO₄ battery mode
- > Deep discharge protection
- > Suitable for emergency escape lighting and open area lighting
- > 5-year warranty

TECHNICAL DATA

Input voltage	220V-240V _{AC}
Mains input frequency	50-60Hz
Ambient temperature <i>ta</i>	+0°C to +50°C
Unit max. case temperature <i>tc</i>	+70°C
Safety class	II
Ingress Protection Class	IP20
Switch on time	< 0.5 seconds
Overvoltage Protection	350V
Battery technology	LiFePO ₄
Emergency duration	3 Hours
Battery recharge period	24 Hours for rated duration
Enclosure dimensions	L177mm x W30mm x H21.5mm
Enclosure material	Self-Extinguishing Polycarbonate

LELT PRODUCTS

Luminaire Type	Part No.	Description	Voltage Range	Emergency Duration	Permegency (W)	Maximum output working voltage (Uout/O/C Voltage)	Max. Supply Wattage (W)	Compatible Batteries
BASIC	10-01-0802	LELT-G 55V-2W/2X1865/180LI	10-55V	3Hr	2W	60V	4.5W	14-12-0002 14-12-0003
	10-01-0804	LELT-G 55V-3W/3X1865/180LI	10-55V	3Hr	3W	60V	6.5W	14-12-0004 14-12-0005
	10-01-0805	LELT-G 55V-3.5W/2X2665/180LI	10-55V	3Hr	3.5W	60V	9W	14-12-0010
	10-01-0806	LELT-G 55V-5W/6X1865/180LI	10-55V	3Hr	5W	60V	12W	14-12-0004* 14-12-0005*
	10-01-0811	LELT-G 55V-7W/4X2665/180LI	10-55V	3Hr	7W	60V	18W	14-12-0010*
	10-01-0841	LELT-G 105V-2W/2X1865/180LI	20-105V	3Hr	2W	120V	4.5W	14-12-0002 14-12-0003
	10-01-0844	LELT-G 105V-3W/3X1865/180LI	20-105V	3Hr	3W	120V	6.5W	14-12-0004 14-12-0005
	10-01-0843	LELT-G 105V-3.5W/2X2665/180LI	20-105V	3Hr	3.5W	120V	9W	14-12-0010
	10-01-0846	LELT-G 105V-5W/6X1865/180LI	20-105V	3Hr	5W	120V	12W	14-12-0004* 14-12-0005*
	10-01-0851	LELT-G 105V-7W/4X2665/180LI	20-105V	3Hr	7W	120V	18W	14-12-0010*
	10-01-0882	LELT-G 220V-2W/2X1865/180LI	100-220V	3Hr	2W	350V	4.5W	14-12-0002 14-12-0003
	10-01-0884	LELT-G 220V-3W/3X1865/180LI	100-220V	3Hr	3W	350V	6.5W	14-12-0004 14-12-0005
	10-01-0885	LELT-G 220V-3.5W/2X2665/180LI	100-220V	3Hr	3.5W	350V	9W	14-12-0010
	10-01-0886	LELT-G 220V-5W/6X1865/180LI	100-220V	3Hr	5W	350V	12W	14-12-0004* 14-12-0005*
	10-01-0891	LELT-G 220V-7W/4X2665/180LI	100-220V	3Hr	7W	350V	18W	14-12-0010*
	10-02-0802	LELT-SG 55V-2W/2X1865/180LI	10-55V	3Hr	2W	60V	4.5W	14-12-0002 14-12-0003
	10-02-0804	LELT-SG 55V-3W/3X1865/180LI	10-55V	3Hr	3W	60V	6.5W	14-12-0004 14-12-0005
	10-02-0805	LELT-SG 55V-3.5W/2X2665/180LI	10-55V	3Hr	3.5W	60V	9W	14-12-0010
	10-02-0806	LELT-SG 55V-5W/6X1865/180LI	10-55V	3Hr	5W	60V	12W	14-12-0004* 14-12-0005*
	10-02-0811	LELT-SG 55V-7W/4X2665/180LI	10-55V	3Hr	7W	60V	18W	14-12-0010*
	10-02-0841	LELT-SG 105V-2W/2X1865/180LI	20-105V	3Hr	2W	120V	4.5W	14-12-0002 14-12-0003
	10-02-0844	LELT-SG 105V-3W/3X1865/180LI	20-105V	3Hr	3W	120V	6.5W	14-12-0004 14-12-0005
	10-02-0843	LELT-SG 105V-3.5W/2X2665/180LI	20-105V	3Hr	3.5W	120V	9W	14-12-0010
	10-02-0846	LELT-SG 105V-5W/6X1865/180LI	20-105V	3Hr	5W	120V	12W	14-12-0004* 14-12-0005*
10-02-0851	LELT-SG 105V-7W/4X2665/180LI	20-105V	3Hr	7W	120V	18W	14-12-0010*	
10-02-0882	LELT-SG 220V-2W/2X1865/180LI	100-220V	3Hr	2W	350V	4.5W	14-12-0002 14-12-0003	
10-02-0884	LELT-SG 220V-3W/3X1865/180LI	100-220V	3Hr	3W	350V	6.5W	14-12-0004 14-12-0005	
10-02-0885	LELT-SG 220V-3.5W/2X2665/180LI	100-220V	3Hr	3.5W	350V	9W	14-12-0010	
10-02-0886	LELT-SG 220V-5W/6X1865/180LI	100-220V	3Hr	5W	350V	12W	14-12-0004* 14-12-0005*	
10-02-0891	LELT-SG 220V-7W/4X2665/180LI	100-220V	3Hr	7W	350V	18W	14-12-0010*	

LELT PRODUCTS

Luminaire Type	Part No.	Description	Voltage Range	Emergency Duration	Powergeney (W)	Maximum output working voltage (Hour/O/C Voltage)	Max. Supply Wattage (W)	Compatible Batteries
DALI2	10-24-0802	LELT-DALI2 55V-2W/2X1865/180LI	10-55V	3Hr	2W	60V	4.5W	14-12-0002 14-12-0003
	10-24-0804	LELT-DALI2 55V-3W/3X1865/180LI	10-55V	3Hr	3W	60V	6.5W	14-12-0004 14-12-0005
	10-24-0805	LELT-DALI2 55V-3.5W/2X2665/180LI	10-55V	3Hr	3.5W	60V	9W	14-12-0010
	10-24-0806	LELT-DALI2 55V-5W/6X1865/180LI	10-55V	3Hr	5W	60V	12W	14-12-0004* 14-12-0005*
	10-24-0811	LELT-DALI2 55V-7W/4X2665/180LI	10-55V	3Hr	7W	60V	18W	14-12-0010*
	10-24-0841	LELT-DALI2 105V-2W/2X1865/180LI	20-105V	3Hr	2W	120V	4.5W	14-12-0002 14-12-0003
	10-24-0844	LELT-DALI2 105V-3W/3X1865/180LI	20-105V	3Hr	3W	120V	6.5W	14-12-0004 14-12-0005
	10-24-0843	LELT-DALI2 105V-3.5W/2X2665/180LI	20-105V	3Hr	3.5W	120V	9W	14-12-0010
	10-24-0846	LELT-DALI2 105V-5W/6X1865/180LI	20-105V	3Hr	5W	120V	12W	14-12-0004* 14-12-0005*
	10-24-0851	LELT-DALI2 105V-7W/4X2665/180LI	20-105V	3Hr	7W	120V	18W	14-12-0010*
	10-24-0882	LELT-DALI2 220V-2W/2X1865/180LI	100-220V	3Hr	2W	350V	4.5W	14-12-0002 14-12-0003
	10-24-0884	LELT-DALI2 220V-3W/3X1865/180LI	100-220V	3Hr	3W	350V	6.5W	14-12-0004 14-12-0005
	10-24-0885	LELT-DALI2 220V-3.5W/2X2665/180LI	100-220V	3Hr	3.5W	350V	9W	14-12-0010
	10-24-0886	LELT-DALI2 220V-5W/6X1865/180LI	100-220V	3Hr	5W	350V	12W	14-12-0004* 14-12-0005*
	10-24-0891	LELT-DALI2 220V-7W/4X2665/180LI	100-220V	3Hr	7W	350V	18W	14-12-0010*
WIRELESS	10-91-10-0802	LELT-WMG 55V-2W/2X1865/180LI	10-55V	3Hr	2W	60V	4.5W	14-12-0002 14-12-0003
	10-91-10-0804	LELT-WMG 55V-3W/3X1865/180LI	10-55V	3Hr	3W	60V	6.5W	14-12-0004 14-12-0005
	10-91-10-0805	LELT-WMG 55V-3.5W/2X2665/180LI	10-55V	3Hr	3.5W	60V	9W	14-12-0010
	10-91-10-0806	LELT-WMG 55V-5W/6X1865/180LI	10-55V	3Hr	5W	60V	12W	14-12-0004* 14-12-0005*
	10-91-10-0811	LELT-WMG 55V-7W/4X2665/180LI	10-55V	3Hr	7W	60V	18W	14-12-0010*
	10-91-10-0841	LELT-WMG 105V-2W/2X1865/180LI	20-105V	3Hr	2W	120V	4.5W	14-12-0002 14-12-0003
	10-91-10-0844	LELT-WMG 105V-3W/3X1865/180LI	20-105V	3Hr	3W	120V	6.5W	14-12-0004 14-12-0005
	10-91-10-0843	LELT-WMG 105V-3.5W/2X2665/180LI	20-105V	3Hr	3.5W	120V	9W	14-12-0010
	10-91-10-0846	LELT-WMG 105V-5W/6X1865/180LI	20-105V	3Hr	5W	120V	12W	14-12-0004* 14-12-0005*
	10-91-10-0851	LELT-WMG 105V-7W/4X2665/180LI	20-105V	3Hr	7W	120V	18W	14-12-0010*
	10-91-10-0882	LELT-WMG 220V-2W/2X1865/180LI	100-220V	3Hr	2W	350V	4.5W	14-12-0002 14-12-0003
	10-91-10-0884	LELT-WMG 220V-3W/3X1865/180LI	100-220V	3Hr	3W	350V	6.5W	14-12-0004 14-12-0005
	10-91-10-0885	LELT-WMG 220V-3.5W/2X2665/180LI	100-220V	3Hr	3.5W	350V	9W	14-12-0010
	10-91-10-0886	LELT-WMG 220V-5W/6X1865/180LI	100-220V	3Hr	5W	350V	12W	14-12-0004* 14-12-0005*
	10-91-10-0891	LELT-WMG 220V-7W/4X2665/180LI	100-220V	3Hr	7W	350V	18W	14-12-0010*

BATTERY TECHNICAL DATA

Part No.	Chemistry	No. of Cells and Format	Cell Type	Nominal Voltage	Capacity
14-12-0002	LiFePO ₄	2-Cell Stick	18650	3.2V	3.0Ah
14-12-0003	LiFePO ₄	2-Cell Pack	18650	3.2V	3.0Ah
14-12-0004	LiFePO ₄	3-Cell Pack	18650	3.2V	4.5Ah
14-12-0005	LiFePO ₄	3-Cell Stick	18650	3.2V	4.5Ah
14-12-0010	LiFePO ₄	2-Cell Stick	26650	3.2V	6.8Ah

ACCESSORIES

	Inverter Type	Part No.	Description		
LED Indicators	BASIC	10-98-0008	LED INDICATOR GREEN SUPERBRIGHT—500MM JST EHR 2POLE		
		10-98-0015	LED INDICATOR GREEN SUPERBRIGHT—1000MM JST EHR 2POLE		
		10-98-0020	LED INDICATOR GREEN PROJECTION—1000MM JST EHR 2POLE		
	SELF-TEST, DALI & WIRELESS	10-98-0003	LED INDICATOR RED/GREEN SUPERBRIGHT—500MM JST EHR 3POLE		
		10-98-0004	LED INDICATOR RED/GREEN SUPERBRIGHT—1000MM JST EHR 3POLE		
		10-98-0013	LED INDICATOR RED/GREEN PROJECTION—500MM JST EHR 3POLE		
		10-98-0014	LED INDICATOR RED/GREEN PROJECTION—1000MM JST EHR 3POLE		
		10-98-0018	LED INDICATOR LP RED/GREEN SUPERBRIGHT—450MM JST EHR 3POLE		
		Indicator Holder	ALL	10-95-0001	LED INDICATOR HOLDER PANEL PLASTIC—BLACK—RTC-51
		Indicator Bezel	ALL	10-95-0002	LED INDICATOR HOLDER—CEILING TILE

STANDARDS AND APPROVALS

- > BS EN 55015
- > BS EN 61000-3-2
- > BS EN 61000-3-3
- > BS EN 61347-1
- > BS EN 61347-2-7
- > BS EN 61347-2-13
- > BS EN 61547
- > BS EN 62034
- > BS EN 62384
- > BS EN 62386-202

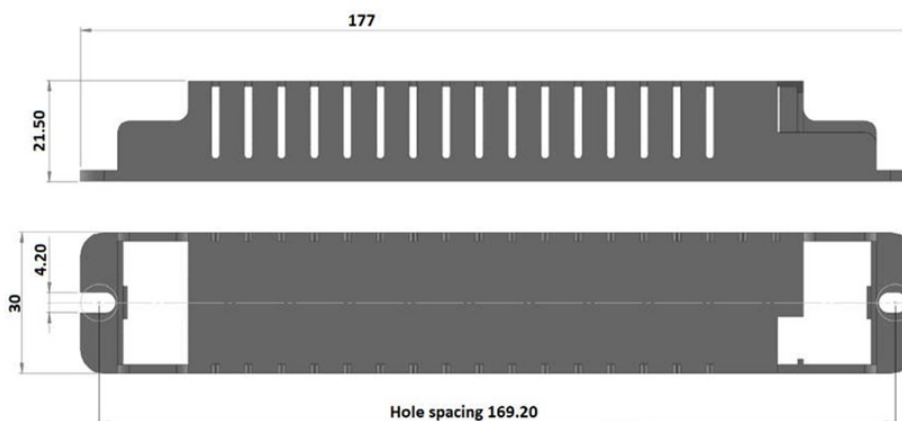


850°C



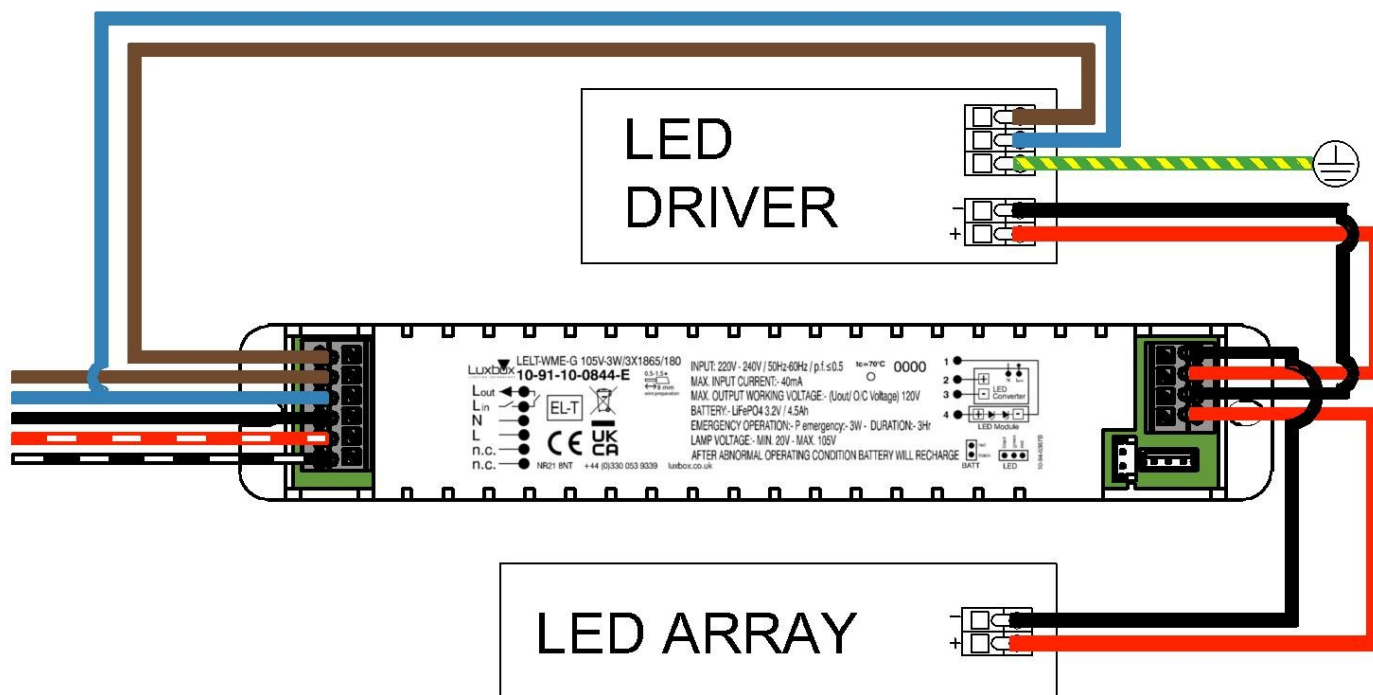
End of Life— At the end of service life there is an obligation upon the user to ensure our products are professionally collected, stored, transported, and recycled in accordance with the UK Waste Electrical and Electronic Equipment (WEEE) regulations 2018 amendments (open scope) and EU Directive 2012/19/EU on waste of electric and electronic equipment (WEEE). We fulfil our obligations and responsibilities to facilitate recycling of our products in accordance with current legislation through a producer compliance scheme.

DIMENSIONS



Measurements done in Millimetres

WIRING DIAGRAM



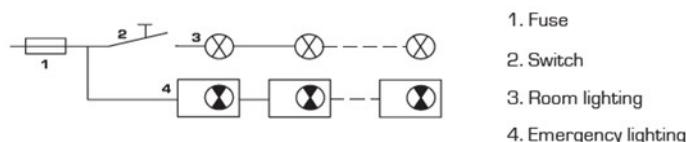
INSTALLATION

Mounting

- > The emergency lighting units must be mounted in a suitable position within the luminaire (fixing-hole diameter 4mm).
- > The emergency lighting units rely upon the luminaire enclosure for protection against accidental contact with live parts.
- > To fulfil EMC-requirements, it is recommended to use wires as short as possible between the mains input terminal and the emergency lighting unit.
- > Mount the battery in the coolest location available inside the luminaire for maximum capacity and life. The ambient temperature around the battery must not exceed 50°C.
- > Emergency lighting units must not be in contact with materials which could ignite, melt, or otherwise change at 60°C.

Electrical Installation

- > The emergency lights must be installed according to locally applicable rules and regulations for electrical installations.
- > The installation of emergency lighting units and luminaires must be carried out by qualified personnel only.
- > All covers must be in place before applying mains to the emergency lighting system.
- > Emergency lighting units must be connected as shown in the circuits diagram on the unit.
- > The terminals are suitable for connecting one wire of 0.5 to 1.5mm² (with 7-7.5mm insulation removed).
- > After connecting the emergency luminaire to the lighting circuit, the line is monitored, and the batteries are continuously charged.
- > This line must be connected to the same circuit breaker / fuse as the normal room lighting (see diagram).





Electrical Installation






- > Local legislation and regulations for maintenance and inspection of emergency lighting must be considered.
- > Before doing any maintenance work, carry out the following procedure:
 - > Disconnect mains of the emergency lighting.
 - > Remove covers.
 - > Disconnect the battery from emergency lighting unit (plug).
 - > Emergency lighting units must undergo a visual inspection at regular intervals and at least annually.

STATUS INDICATOR









Visual status indicator for Basic models

-  **LED Green:** No fault / normal state.
-  **LED Extinguished:** Emergency operation in progress / battery fully discharged.









Visual status indicator for Self-Test models

-  **LED Green:** No fault / normal state.
-  **LED Continuous Flashing Red:** Battery fault—either insufficient battery capacity or interrupted connection. The fault indication is reset once the fault is cleared.
-  **LED Intermittently Flashing Red:** Luminaire fault.
-  **LED Flashing Green / Momentary Red:** Duration test interrupted, postponed or Self-Testing failure.
-  **LED Extinguished:** If the LED is still off after more than 5 minutes of switching on the mains, then the mains or the unit is faulty.

Visual status indicator for DALI models

-  **LED Intermittently Flashing Green:** Function test (fast flash 100ms on/off) or duration test (slow flash 1s on/off)
-  **LED Regularly Flashing Green:** Inhibit.
-  **LED Green:** No fault / normal state.
-  **LED Continuous Flashing Red:** Battery fault (fast flash 100ms on/off) or test failed (slow flash 1s on/off). The fault indication is reset once the fault is cleared.
-  **LED Red:** Luminaire fault.
-  **LED Flashing Green / Momentary Red:** Duration test interrupted, postponed or Self-Testing failure.
-  **LED Alternating Flashing Red/Green :** Identification switched on to locate individual unit address.
-  **LED Extinguished:** If the LED is still off after more than 5 minutes of switching on the mains, then the mains or the unit is faulty.

Visual status indicator for Wireless models

-  **Intermittently Flashing Green –** Function test (fast flash; 100ms on/off) or duration test (slow flash; 1s on/off)
-  **Continuous Flashing Green –** Battery charging after discharging or after powering up.
-  **Solid Green –** No fault / normal state.
-  **Continuous Flashing Red –** Battery fault. Insufficient battery capacity or interrupted connection. The fault indication is reset once the fault is cleared.
-  **Intermittently Flashing Red –** Lamp fault. Please note that the fault is not indicated (or reset) immediately when it occurs (or is cleared), but after the next Self-Test.
-  **Flashing Green / Momentary Red –** Duration test interrupted, postponed.
-  **Alternating Flashing Red/Green –** Identification switched on to locate individual unit address.
-  **LED Extinguished -** If the LED is still off after more than 5 minutes of switching on the mains, then the mains or the unit is faulty.

CONTACT US

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