

LEMY – EMERGENCY LIGHTING DRIVERS



SELV High efficiency electronic emergency lighting driver, suitable for Power-LED applications in non-maintained operation in Power-LED applications.

Each emergency lighting driver in the LEMY range is designed to drive an LED downlight or luminaire to emergency operation. LEMY drivers are designed in accordance with BS EN 61347-1, BS EN 61347-2-7 and BS EN61347-2-13 and self-testing (where included) in accordance with BS EN 62034.

LiFePO₄ batteries provide emergency power to the connected LED light source.

KEY FEATURES AND BENEFITS

- > Conforms to Safety Extra Low Voltage (SELV) requirements¹
- > Basic and Self-Test models available
- > Non-maintained mode of operation
- > 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
- > 5-year warranty

¹The output voltage cannot exceed SELV under normal conditions and under single fault condition, including earth faults in other circuits.

TECHNICAL SPECIFICATIONS




Input voltage	220V-240V _{AC}
Mains input frequency	50-60Hz
Ambient temperature <i>t_a</i>	0°C to +50°C
Unit max. case temperature <i>t_c</i>	65°C
Safety class	II
Ingress Protection type	IP20
P emergency	See technical data table
Max. output working voltage (U _{out} / O/C voltage)	33V _{dc}
Battery technology	LiFePO ₄
Battery capacity	See technical data table
Emergency duration	3 Hours
Battery recharge period	24 Hours for rated duration
Unit case size	L205mm x W37mm x H21.75mm
Enclosure material	Self-Extinguishing Polycarbonate

TECHNICAL DATA

Luminaire Type	Part No.	Description	Emergency Duration	Emergency (W)	Light output in emergency mode (Assumption: LED Efficiency=150lm/W)	Maximum output working voltage (Unit / o/c Voltage)	Total Circuit Power (Max)	Compatible Batteries
BASIC	10-91-01-1154-0	LEMY-NMG 1-4/1X1865/180LI	3Hr	0.7W	105Lm	30V	2.0W	14-12-0001
	10-91-01-1955-0	LEMY-NMG 1-4/2X1865/180LI	3Hr	1.5W	225Lm	30V	2.0W	14-12-0002 14-12-0003
SELF-TEST	10-91-12-1154-0	LENY-SNM-KMG 1-4/1X1865/180LI	3Hr	0.7W	105Lm	30V	2.0W	14-12-0001
	10-91-12-1955-0	LENY-SNM-KMG 1-4/1X1865/180LI	3Hr	1.5W	225Lm	30V	2.8W	14-12-0002 14-12-0003

Refer to Battery Data Sheet for technical information (14-93-0001)

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
		10-98-0003	LED INDICATOR RED/GREEN SUPERBRIGHT—500MM JST EHR 3POLE
	SELF-TEST & DALI	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

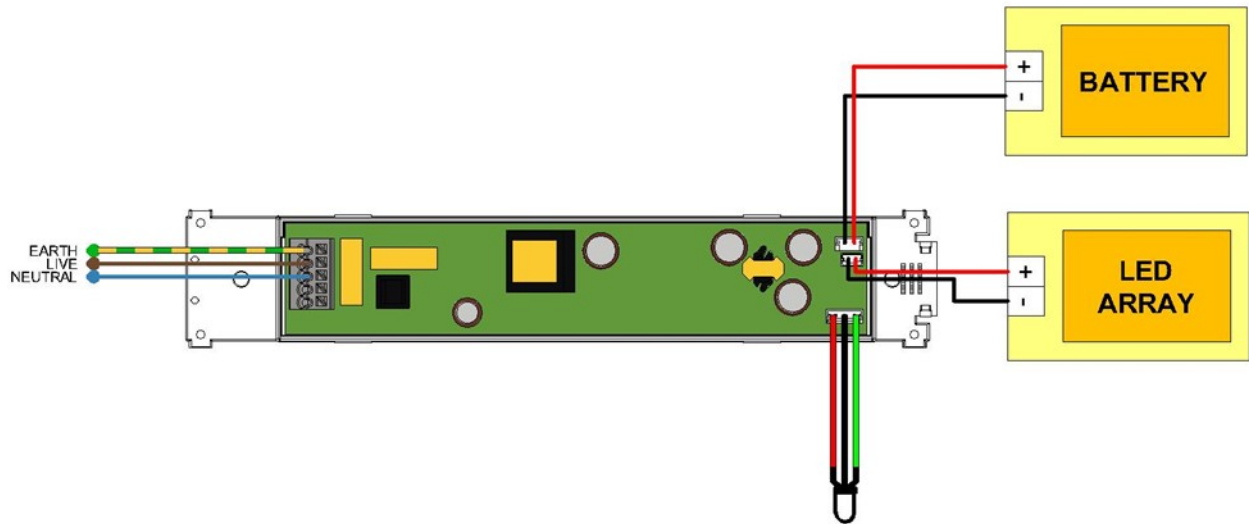
STANDARDS AND APPROVALS

- > BS EN 55015
- > BS EN 61000-3-2
- > BS EN 61000-3-3
- > BS EN 61347-1 (Glow wire test with temperature of 850°C)
- > BS EN 61347-2-7
- > BS EN 61347-2-13
- > BS EN 61547
- > BS EN 62034
- > BS EN 62384



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 2028 amendments (open scope) and EU Directive 2021/19/EU on waste of electric and electronic equipment (WEEE). We fulfil our obligations and responsibilities to facilitate recycling of its products in accordance with current legislation through membership of LUMICOM, a producer compliance scheme.

WIRING DIAGRAM



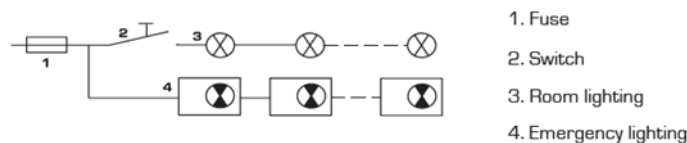
INSTALLATION

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 and 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.

CONTACT US

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