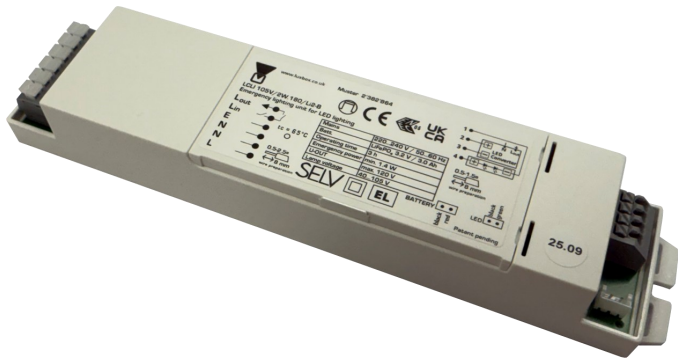


LC – EMERGENCY LIGHTING DRIVER WITH BATTERY



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

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

In normal mains operation the LED array is powered from the existing mains driver and in emergency operation by the LC and its self contained battery.

The LC range can also function as a standalone emergency remote box when combined with optional strain-relief.

KEY FEATURES AND BENEFITS

- > Available in 2W & 3W Emergency Outputs
- > Basic, Self-Test & DALI options
- > 3-hour emergency operating time
- > Constant power output in emergency mode
- > Specific charging regime for LiFePO₄ battery technology
- > Deep discharge protection of battery
- > 5-year warranty on Self-Test and DALI

TECHNICAL DATA

| | |
|---|---|
| Input voltage | 220V-240V _{AC} |
| Mains input frequency | 50-60Hz |
| Ambient temperature <i>t_a</i> | +5°C to +50°C |
| Unit max. case temperature <i>t_c</i> | +65°C |
| Safety class | II |
| Ingress Protection Class | IPXX - without optional strain relief * IP20 - with optional strain relief |
| 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 material | Self-Extinguishing Polycarbonate |

* must be housed within a luminaire enclosure to ensure double insulation of product.

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 its products in accordance with current legislation through membership of LUMICOM, a producer compliance scheme.

LC PRODUCTS

| Luminaire Type | Part No. | Description | Voltage Range | Emergency Duration | Emergency (W) | Maximum output working voltage (hour/O/C Voltage) | Max. Supply Wattage (W) | Supplied Battery |
|----------------|---------------|---|---------------|--------------------|---------------|---|-------------------------|------------------|
| BASIC | 10-91-01-1002 | LCLI 55V/2W.180/Li2-B - INVERTER BASIC - I CAN | 12-55V | 3Hr | 2W | 60V | 4.5W | 14-12-0024 |
| | 10-91-01-1013 | LCLI 55V/3W.180/XL2-B - INVERTER BASIC - I CAN | 12-55V | 3Hr | 3W | 60V | 6.5W | 14-12-0023 |
| | 10-91-01-1041 | LCLI 105V/2W.180/Li2-B - INVERTER BASIC - I CAN | 20-105V | 3Hr | 2W | 120V | 4.5W | 14-12-0024 |
| | 10-91-01-1042 | LCLI 105V/3W.180/XL2-B - INVERTER BASIC - I CAN | 20-105V | 3Hr | 3W | 120V | 6.5W | 14-12-0023 |
| | 10-91-01-1082 | LCLI 220V/2W.180/Li2-B - INVERTER BASIC - I CAN | 100-220V | 3Hr | 2W | 300V | 4.5W | 14-12-0024 |
| | 10-91-01-1092 | LCLI 220V/3W.180/XL2-B - INVERTER BASIC - I CAN | 100-220V | 3Hr | 3W | 300V | 6.5W | 14-12-0023 |
| SELF-TEST | 10-91-02-1002 | LCMI 55V/2W.180/Li2-B - INVERTER SELF-TEST - I CAN | 12-55V | 3Hr | 2W | 60V | 4.5W | 14-12-0024 |
| | 10-91-02-1013 | LCMI 55V/3W.180/XL2-B - INVERTER SELF-TEST - I CAN | 12-55V | 3Hr | 3W | 60V | 6.5W | 14-12-0023 |
| | 10-91-02-1041 | LCMI 105V/2W.180/Li2-B - INVERTER SELF-TEST - I CAN | 20-105V | 3Hr | 2W | 120V | 4.5W | 14-12-0024 |
| | 10-91-02-1042 | LCMI 105V/3W.180/XL2-B - INVERTER SELF-TEST - I CAN | 20-105V | 3Hr | 3W | 120V | 6.5W | 14-12-0023 |
| | 10-91-02-1082 | LCMI 220V/2W.180/Li2-B - INVERTER SELF-TEST - I CAN | 100-220V | 3Hr | 2W | 300V | 4.5W | 14-12-0024 |
| | 10-91-02-1092 | LCMI 220V/3W.180/XL2-B - INVERTER SELF-TEST - I CAN | 100-220V | 3Hr | 3W | 300V | 6.5W | 14-12-0023 |
| DALI | 10-91-04-1002 | LCDI 55V/2W.180/Li2-B - INVERTER DALI - I CAN | 12-55V | 3Hr | 2W | 60V | 4.5W | 14-12-0024 |
| | 10-91-04-1013 | LCDI 55V/3W.180/XL2-B - INVERTER DALI - I CAN | 12-55V | 3Hr | 3W | 60V | 6.5W | 14-12-0023 |
| | 10-91-04-1041 | LCDI 105V/2W.180/Li2-B - INVERTER DALI - I CAN | 20-105V | 3Hr | 2W | 120V | 4.5W | 14-12-0024 |
| | 10-91-04-1042 | LCDI 105V/3W.180/XL2-B - INVERTER DALI - I CAN | 20-105V | 3Hr | 3W | 120V | 6.5W | 14-12-0023 |
| | 10-91-04-1082 | LCDI 220V/2W.180/Li2-B - INVERTER DALI - I CAN | 100-220V | 3Hr | 2W | 300V | 4.5W | 14-12-0024 |
| | 10-91-04-1092 | LCDI 220V/3W.180/XL2-B - INVERTER DALI - I CAN | 100-220V | 3Hr | 3W | 300V | 6.5W | 14-12-0023 |

BATTERY TECHNICAL DATA

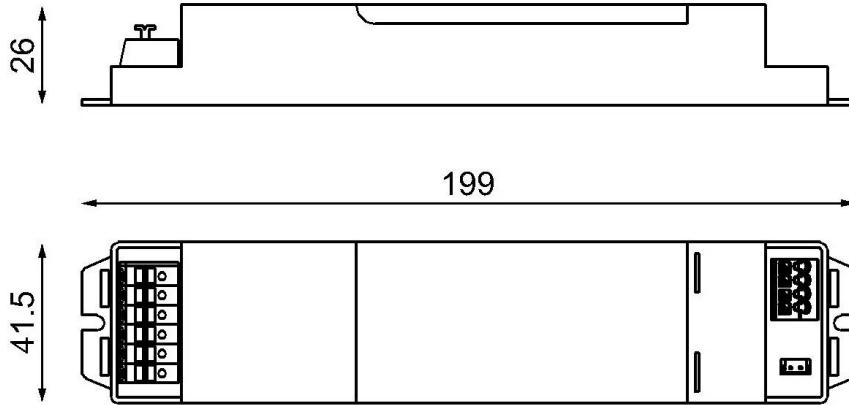
| Part No. | Chemistry | No. of Cells and Format | Cell Type | Nominal Voltage | Capacity | Connection Type | Cable Length |
|------------|---------------------|-------------------------|-----------|-----------------|----------|-----------------|--------------|
| 14-12-0023 | LiFePO ₄ | 2-Cell Pack | 18650 | 3.2V | 4.4Ah | JST-HER-2 | 45mm |
| 14-12-0024 | LiFePO ₄ | 2-Cell Pack | 18650 | 3.2V | 3.0Ah | JST-HER-2 | 45mm |

ACCESSORIES

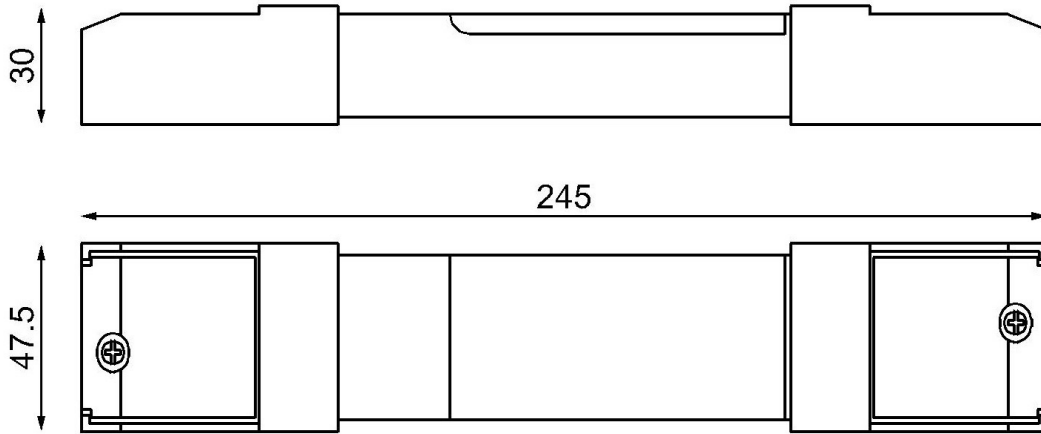
| | Inverter Type | Part No. | Description |
|---------------------|----------------------------|------------|--|
| LED Indicators | BASIC | 10-98-0008 | LED INDICATOR GREEN SUPERBRIGHT—500MM JST EHR 2POLE |
| | | 10-98-0015 | LED INDICATOR GREEN SUPERBRIGHT—1000MM JST EHR 2POLE |
| | | 10-98-0020 | 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 |
| Cable Strain Relief | ALL | 10-95-0008 | INVERTER PLASTIC I-CASE STRAIN RELIEF - WHITE |

DIMENSIONS (mm)

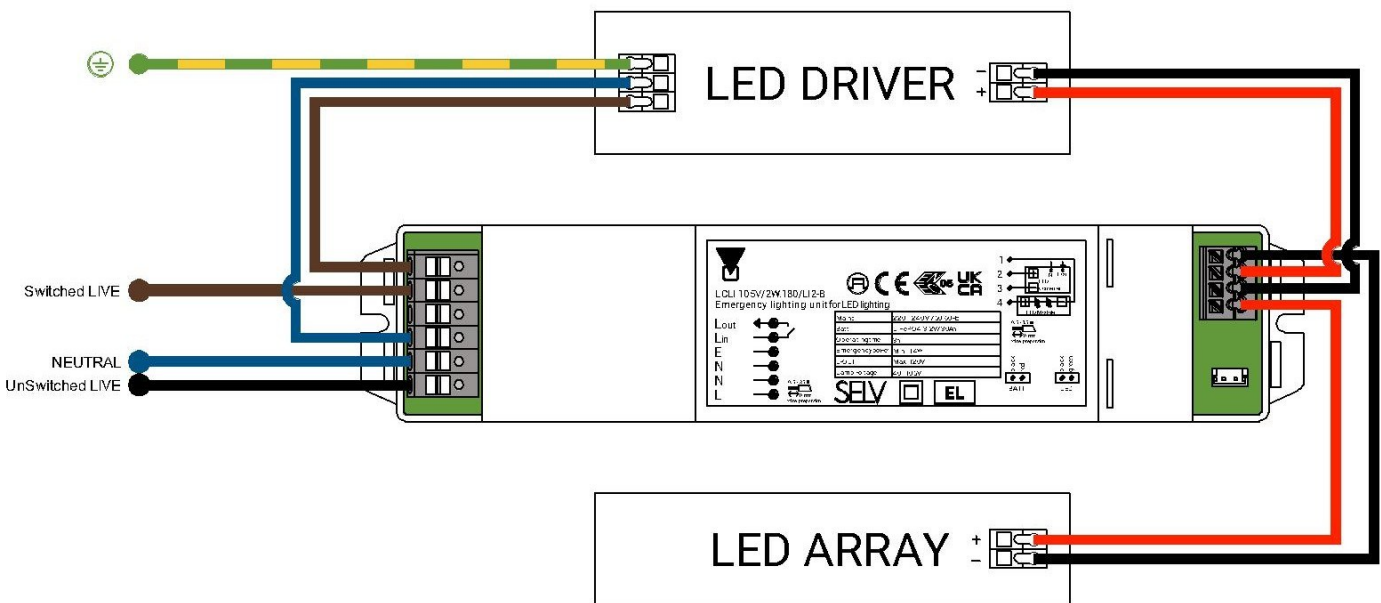
LC Inverter



LC Inverter with Strain Relief



WIRING DIAGRAM





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









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 Intermittently Flashing Green:** commissioning/battery regeneration after initial
-  **LED Green:** No fault / normal state.
-  **LED Continuous Flashing Red:** battery fault—either insufficient battery capacity or interrupted
-  **LED Intermittently Flashing Red:** Luminaire fault
-  **LED Flashing Green / Momentary Red:** Duration test interrupted, postponed or self- testing
-  **LED Extinguished:** If the LED is still off after more than 5 minutes of switching on the mains,

Visual status indicator for DALI models

-  **LED Intermittently Flashing Green:** commissioning/battery regeneration after initial connection. 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

CONTACT US

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