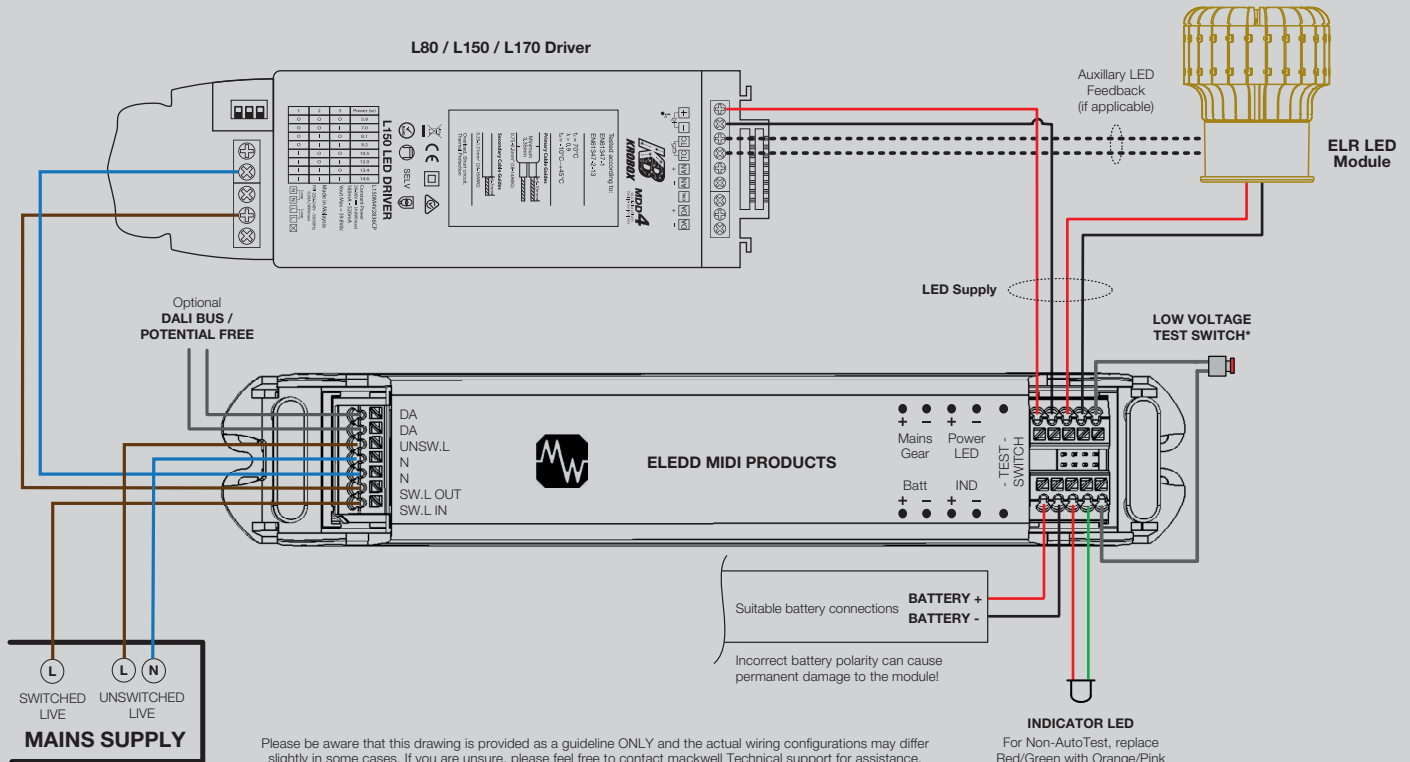
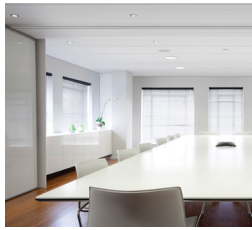


## Recommended ELR LED Emergency Module Solution



Please be aware that this drawing is provided as a guideline ONLY and the actual wiring configurations may differ slightly in some cases. If you are unsure, please feel free to contact mackwell Technical support for assistance.

For Non-AutoTest, replace Red/Green with Orange/Pink



# ELEDD 55

Emergency LED Driver



**ELEDD 55**



Emergency LED Driver with 3 Hour Emergency Duration

## High Technology Emergency LED Driver

The ELEDD 55 Emergency LED Driver is an LED emergency control module with DALI AutoTest® functionality that enables conversion of general lighting for emergency operations.

ELEDD 55 is a maintained LED emergency conversion module with a mains driver changeover relay and constant current SELV compliant outputs, suitable for driving multiple power LEDs or multi-chip LED arrays with forward voltages (V<sub>f</sub>) of 30V to 55V.

The ELEDD system has built-in adaptability that allows the optimum output current, based on the forward voltage of the specific light engine to be selected for a more precise match to the host LED scheme.

### Key features:

- **User Selectable Output**
- **Available as articulated unit or as module only**
- **DALI functionality**
- **Compatible with leading brands of mains drivers**
- **Test Switch function**
- **Standard LED wiring looms available**
- **Battery deep discharge protection**
- **SELV output**
- **SmartCharge™ technology**
- **Optional side fixing kit**
- **3 hour rated emergency duration**



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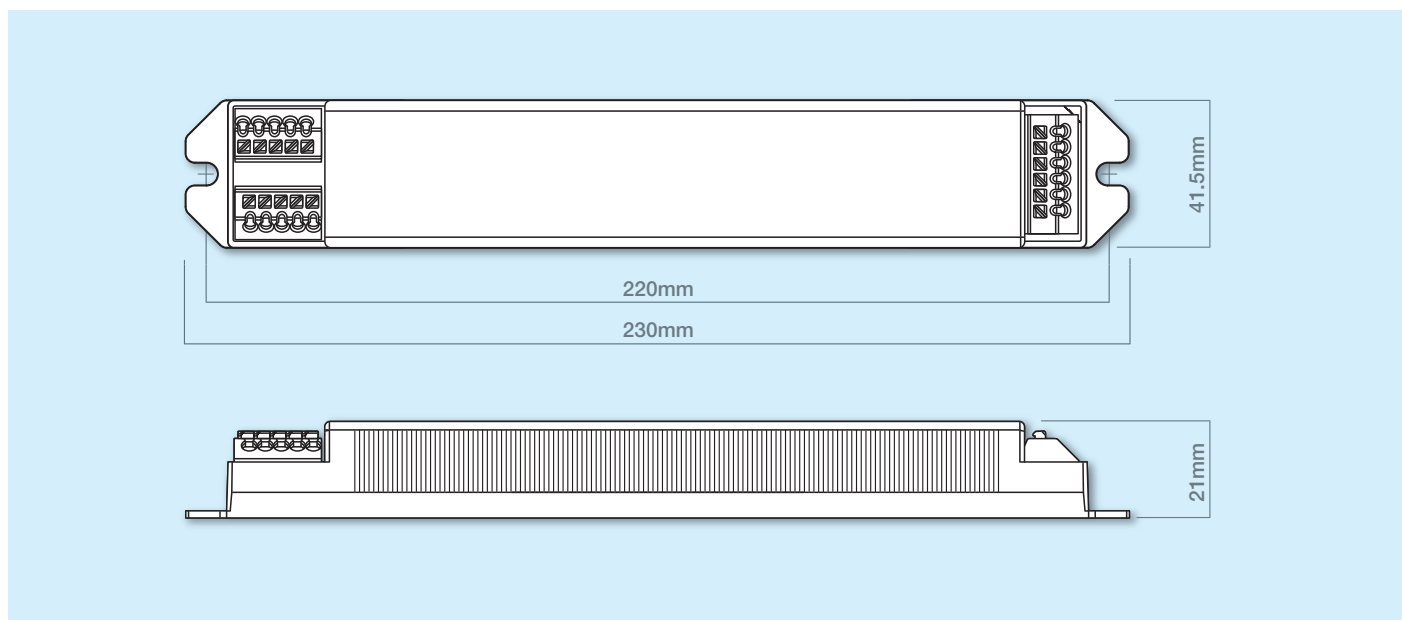




# ELEDD 55

## Emergency LED Driver

### Dimensions



### Driver Specification

|  |   |                           |
|--|---|---------------------------|
| Rated supply voltage                       | : | 230V                      |
| Supply frequency                           | : | 50/60Hz                   |
| Supply current (Max)                       | : | 45mA                      |
| Power factor                               | : | 0.38                      |
| LED voltage (Vf)                           | : | 30V to 55V                |
| Control gear ambient temperature (ta)      | : | 0°C to +45°C              |
| Articulated unit ambient temperature (ta)  | : | 0°C to +35°C              |
| Control gear maximum case temperature (tc) | : | +70°C Driver only         |
| Initial charge period                      | : | 24 hours                  |
| Rated emergency duration                   | : | 3 hours                   |
| Battery technology                         | : | NiMH                      |
| Battery charge current                     | : | 200mA nominal             |
| Conductor size                             | : | 0.2 to 1.5mm <sup>2</sup> |
| Weight of control gear                     | : | 113g                      |

### Output Current Settings

| LED Vf    | Nominal Output Current (I <sub>out</sub> ) |
|-----------|--|
| 30V - 36V | 90mA                                       |
| 36V - 42V | 80mA                                       |
| 42V - 48V | 70mA                                       |
| 48V - 55V | 60mA                                       |

### Relevant Standards

EN 60598-2-22  
 EN 62386  
 EN 61347-2-7, 2-13  
 EN 62384  
 EN 62034  
 ICEL 1004

### Batteries

The articulated version includes a rechargeable 4.8V 4.0Ah NiMH battery pack for 3 hours operation.

### Technology Features

SmartCharge™ is incorporated within Mackwell's emergency products to provide energy efficient charging maintenance, reduced operating temperatures and optimum service life of NiMH batteries.



# ELEDD 55

## Emergency LED Driver

### Order codes

#### Standard\*

| Order Code | Description  |
|------------|--|
| 9001262    | ELEDD 55 NiMH 4Ah 60-90mA CC Non-AutoTest - Driver Only      |
| 9001269    | ELEDD 55 NiMH 4Ah 60-90mA CC Non-AutoTest - Articulated Unit |

#### DALI\*

| Order Code | Description   |
|------------|---|
| 9001263    | ELEDD 55 NiMH 4Ah 60-90mA CC DALI AutoTest - Driver Only      |
| 9001266    | ELEDD 55 NiMH 4Ah 60-90mA CC DALI AutoTest - Articulated Unit |

#### Replacement Batteries

| Order Code | Description                                  |
|------------|--|
| 9001675    | Battery NiMH 4C 4Ah Side-by-Side             |
| 9001787    | Battery NiMH 2+2C 4Ah Twinstick              |
| 9001700    | Battery Box Replacement for Articulated Unit |

#### LED Indicators

| Order Code | Description                                      |
|------------|--|
| 9001715    | 520mm Diffused Bi-Colour LED Complete With Bezel |
| 9001737    | 520mm Diffused Green LED Complete With Bezel     |

\* Other variants may be available on request. Contact your Mackwell sales representative for further information.

Mackwell offers end caps with all battery sticks and these should be securely fastened to the gear tray or luminaire body with screws. Failure to use appropriate end caps may result in damage to the luminaire or wiring during transport, installation and operation.



ELEDD 55 is available with the following technology options:

#### ✓ DALI AutoTest®

Provides further benefits by enabling testing and monitoring of an emergency lighting system either on-site or via an internet connection. DALI AutoTest® is ideal for monitoring larger buildings and multiple sites.

#### ✓ Non-AutoTest®

For applications where self-testing is not required or suitable, the non-AutoTest® option provides the same quality and performance expected of Mackwell products, without the AutoTest® feature.



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#### WARRANTY

ELEDD 55 drivers are warranted for three years, which covers faulty workmanship and materials. This "Return to Base" warranty requires that the product is used within the terms and conditions stated above, in our literature and on our website. Products returned to us under warranty must be carriage paid. Mackwell Electronics Ltd. accept no liability for cost incurred.

Mackwell maintains a policy of continuous development and reserves the right to change the details shown on this data sheet without prior notice.

The contents are intended for guidance only.

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