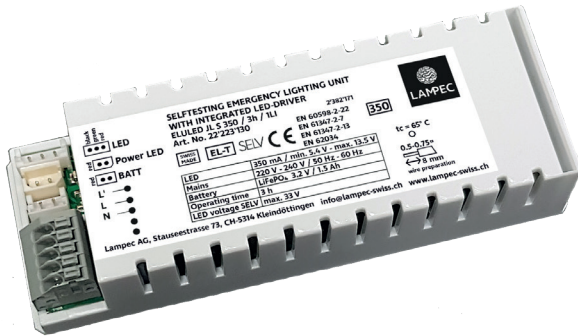


# EMERGENCY LIGHTING UNIT

## ELULED JL

Emergency lighting unit for LED applications with integrated LED driver



### Technical specifications

|  |  |
|--|--|
| Mains voltage range                    | 220 – 240 V                                      |
| Main frequency                         | 50 / 60 Hz                                       |
| Output voltage range                   | 5,4 – 13,5 V                                     |
| Output current in maintained operation | 350 or 700 mA, others upon request               |
| Power consumption                      | max. 15 VA                                       |
| Switchover time mains – emergency      | < 0,5 s  |
| Max. housing temperature $t_c$         | 65 °C  |
| Ambient temperature range              | 5 – 50 °C  |
| Functionality test                     | weekly 2 min. (random – see selftest data sheet) |
| Duration tests                         | four times annually                              |
| Battery charging time                  | 24 h   |
| Protection classes                     | I und II   |
| Protection type                        | IP20   |
| Weight                                 | 60 g   |
| L housing dimensions                   | L 107,8 x W 37,4 x H 22 mm                       |
| Hole spacing                           | with slots<br>(detail drawing upon request)      |

### Product description

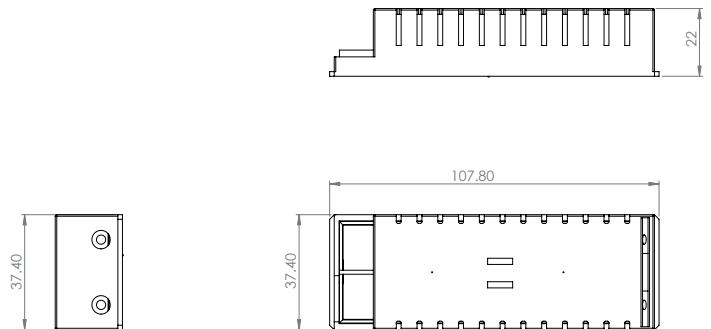
The emergency lighting unit ELULED JL operates LED modules within a range of 5,4 to maximum 13,5 V in maintained and non-maintained operation with a constant power output to the LED array. The integrated selftest functionality corresponds with European standards.

- Self-contained emergency LED driver for maintained and non-maintained operation
- Usage in single Power LEDs and LED arrays between 5,4 and maximum 13,5 V
- Polycarbonate housing for protection classes I and II luminaires (L 107,8 x W 37,4 x H 22 mm)
- 60 months guarantee

### Properties

- Maintained and non-maintained operation
- Selftest as per IEC 62034
- Electronic control of LED currents in maintained operation
- Currents in maintained operation 700 or 350 mA (automatic recognition of the LED array, other values upon request)
- 3 h or 8 h operating time (variant upon request)
- Constant power output in emergency mode (depending on battery type used)
- SELV
- Bi-colour LED status display
- Deep discharge protection
- Suitable for escape route lighting, back-up lighting and particularly hazardous workplaces
- Ambient temperature range 5 – 50 °C
- Adapted charge conditions for all battery types (NiCd, NiMH, LFP)

### L housing

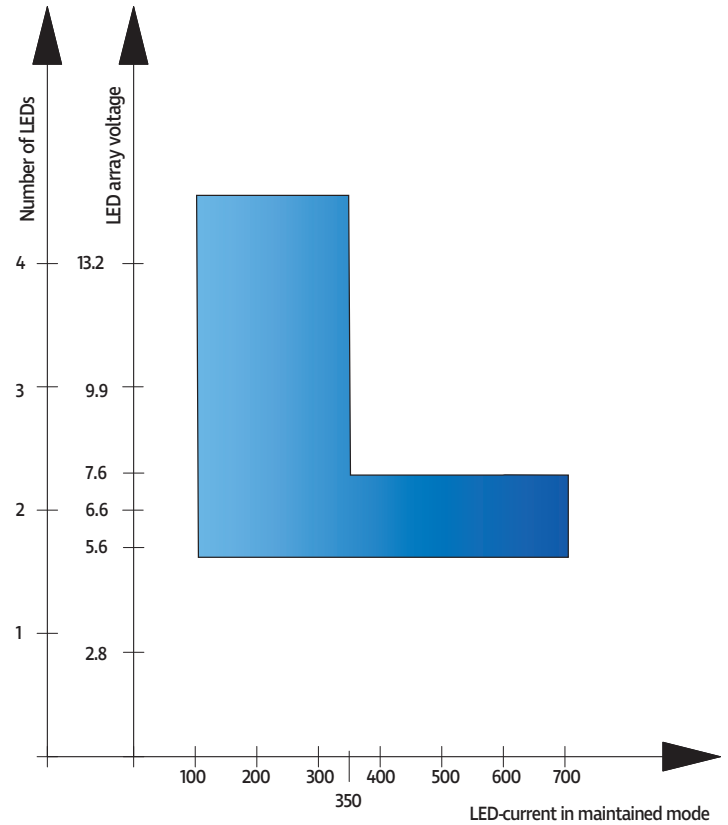


## Technical data

| Specifications   | Type | ELULED JL  |                           |
|--|------|--|---------------------------|
|  |      |  |                           |
| LED voltage in maintained mode   |      | min. 5,4 V<br>max. 7,6 V   | min. 5,4 V<br>max. 13,5 V |
| LED current in maintained mode   |      | 700 mA <sup>1)</sup>   | 350 mA <sup>1)</sup>      |
| Output power in maintained mode  |      | max. 5,3 W   | max. 5,3 W                |
| Emergency operation duration   |      | 3 h <sup>2)</sup>  | 3 h <sup>2)</sup>         |
| Output power in emergency operation with battery types NiCd/NiMH 2.4V-1.8Ah and LFP 3.2V-1.5Ah   |      | 0,5 W  | 0,5 W                     |
| Output power in emergency operation with battery types NiCd/NiMH 2.4V-4Ah-4.5Ah and LFP 3.2V-3Ah |      | 1,2 W  | 1,2 W                     |
| SELV   |      | ✓  | ✓                         |
| Product references for DALI communication  |      | ELULED JL FDS  | ELULED JL FDS             |
| Product references for wireless communication  |      | ELULED JL W  | ELULED JL W               |
| Battery types  |      | NiCd (SC, D cells)   NiMH (LA, A cells)<br>LFP (1x, 2x18650 cells) |                           |

<sup>1)</sup> other values upon request  
<sup>2)</sup> 8 h upon request

## Operation range in maintained mode



## Selftest

- Selftest as per IEC 62034
- Bi-colour LED status display
- Battery status
- LED module status
- Charging cycle

## Batteries

- High temperature cells 5 – 50 °C
- NiCd / NiMH / LFP batteries consisting of SC, D / LA, AA / 18650 cells
- Charging time 24 h
- Battery regeneration for capacity optimisation
- See battery data sheets for details

## Certification marks

- CE
- SELV



## Safety

- Protection classes I and II
- Protection type IP20
- SELV

## Standards

- EN 60598-2-22
- EN 61347-2-7
- EN 61347-2-13
- EN 62386
- EN 62034
- EN 55015
- EN 61000-3-2
- EN 61000-3-3
- EN 61547
- Suitable in installations conforming to VDE 0108 oder EN 50172

All information is supplied without liability. Technical data subject to change without notice.