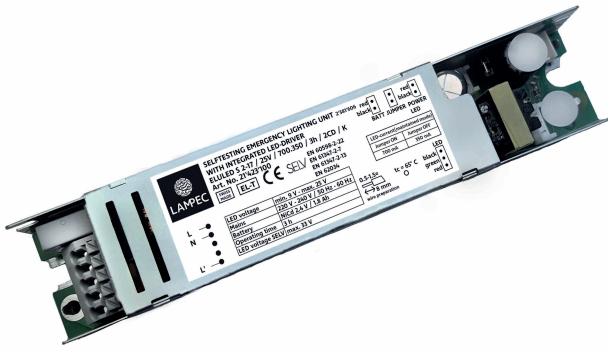


EMERGENCY LIGHTING UNIT

ELULED IK

LED emergency lighting combo with integrated 20W LED driver for maintained and non-maintained operation



Technical specifications

Mains voltage range	220...240 V
Mains frequency	50 / 60 Hz
Output voltage range	Version 25V: 8.3...25 V Version 57V: 20...57 V
Output current in mains operation	Version 25V: 300...800 mA Version 57V: 120...350 mA
Power consumption / power input	max. 35 VA / 25 W
Mains input current	max. 175 mA (@200V)
Changing time mains – emergency	< 0,5 s
Max. case temperature t_c	65 °C
Ambient temperature range t_a	5...50 °C
Functionality test	weekly 2 min (random – see datasheet selftest)
Capacity test	four full battery discharges annually
Battery charging time	24 h
Protection class	I
Protection type	IP20
Dimensions K housing	L 150 x W 30,2 x H 22,1 mm
Mounting holes	142 mm

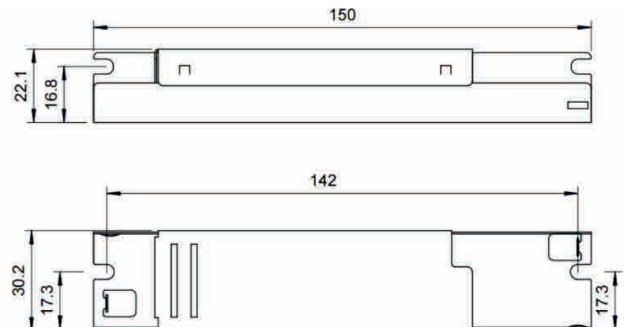
Product description

The ELULED IK emergency lighting combo driver operates LED modules with power ratings of min. 2W to max. 20W in mains operation. The LED voltage ranges from 8.3 to max. 25 V for the 25V version and from 20 to max. 57 V for the 57V version. During emergency mode, there is a constant LED output power depending on the connected battery type. The emergency operation and self-test functions comply with the standards IEC 61347-2-7 and IEC 62034 respectively. The short and space-saving metal housing may be installed in a variety of protection class I emergency and safety luminaires along with the equally very compact LFP batteries. Battery regeneration for capacity optimisation is initiated automatically immediately after initial commissioning and each time the battery is replaced.

Properties

- self-contained emergency lighting combo driver for LED exit signs and emergency luminaires
- maintained and non-maintained operation
- selftest conforming to IEC/EN 62034
- Use in luminaires with LED arrays from 8.3 to 25 V (25V version) or 20 to 57 V (57V version)
- LED current values in mains operation 300...700 mA (25V version) or 120...350 mA (57V version) within the maximum output power of 20W; automatic recognition of LED array, other values on request
- emergency duration 1 h, 3 h or 8 h, others on request
- constant output power in emergency operation depending on battery type used
- SELV
- automatic battery regeneration
- deep discharge protection
- bi-colour LED status display
- optional bus communication (DALI or M-Bus)
- metal housing L 150 x W 30,2 x H 22,1 mm for protection class I LED luminaires
- ambient temperature range 5 to 50 °C

K housing

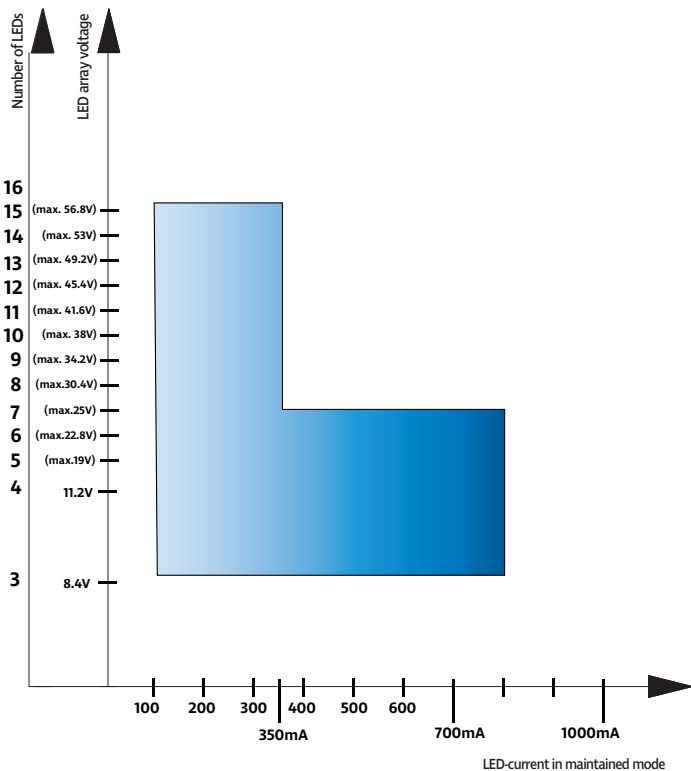


Technical data

Type	ELULED IK 25V	ELULED IK 57V
Specifications		
LED voltage in maintained mode	min. 8,3 V max. 25 V	min. 20 V max. 57 V
LED current in maintained mode	max. 800 mA	max. 350 mA
Output power in maintained mode	max. 20 W	
Emergency operation duration	1 h, 3 h, 8 h ¹⁾	
SELV	✓	
Product references for DALI communication	✓	
Product references for wireless communication	ELULED IK FDS 25V	ELULED IK FDS 57V
Battery types	LFP (1x, 2x oder 3x18650-cells) other technologies (NiCd/NiMH) on request	

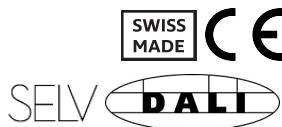
¹⁾ other values upon request

Operation range in maintained mode



Certification mark

- CE
- EN 62620 (LFP battery performance)
- EN 62133 (LFP battery safety)



Emergency operating

Type	Emergency operating time	Emergency operating power	LFP battery type	Max. mains power
ELULED IK xxV/1h/1Li	1 h	1,2 W	1x1865 3.2V-1.5Ah	20 W
ELULED IK xxV/1h/2Li	1 h	2,4 W	2x1865 3.2V-3Ah	20 W
ELULED IK xxV/1h/3Li	1 h	3,6 W	3x1865 3.2V-4.5Ah	20 W
ELULED IK xxV/1h/4Li	1 h	4,8 W	4x1865 3.2V-6Ah	20 W
ELULED IK xxV/3h/1Li	3 h	0,55 W	1x1865 3.2V-1.5Ah	20 W
ELULED IK xxV/3h/2Li	3 h	1,2 W	2x1865 3.2V-3Ah	20 W
ELULED IK xxV/3h/3Li	3 h	1,8 W	3x1865 3.2V-4.5Ah	20 W
ELULED IK xxV/3h/4Li	3 h	2,4 W	4x1865 3.2V-6Ah	20 W
ELULED IK xxV/8h/1Li	8 h	0,16 W	1x1865 3.2V-1.5Ah	20 W
ELULED IK xxV/8h/2Li	8 h	0,35 W	2x1865 3.2V-3Ah	20 W
ELULED IK xxV/8h/3Li	8 h	0,5 W	3x1865 3.2V-4.5Ah	20 W
ELULED IK xxV/8h/4Li	8 h	0,7 W	4x1865 3.2V-6Ah	20 W

Selftest

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

Batteries

- High temperature cells 5 to 50 °C
- LFP batteries consisting of 18650 type cells
- Charging time 24 h
- Automatic battery regeneration process for capacity optimisation
- See battery data sheets for details

Safety

- Protection class I
- 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
- geeignet in Anlagen nach: VDE 0108 oder EN 50172

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