

EMERGENCY Converter Kit



Product information

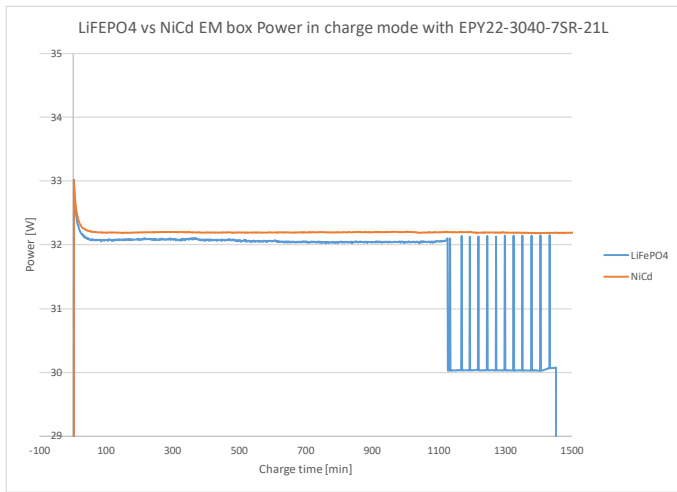
This emergency lighting unit is a conversion kit remote box for operating GE/TUNGSRAM LED luminaires in emergency mode. The conversion kit is suitable for converting existing light fittings to emergency operation. The Emergency Converter Kit provides a sensible solution when fitting dedicated emergency luminaires is not possible. Supports a variety of LED light sources offering standard, self-test and DALI self-test. Compact polycarbonate case containing electronics and battery for external installation outside the luminaire for usage in protection class II luminaires (L 292 x W 81 x H 41 mm).

Features

- Max. case temperature 65°C
- Ambient temperature 5°C - 35°C
- Normal operating voltage min. 12 V / max. 55 V
- Switchover time mains - emergency <0,5s
- Lumen output of main fixture is 250-370lm in EM mode depends on fixture type, pls check compatibility list below
- Available non-maintained / self test and DALI versions
- Non-maintained mode / Maintained mode in combination with an LED-driver
- 3 h operating time
- Battery charging time 24 h
- Selftest as per IEC 62034
- Status display LED
- Compatible with dimmable and non-dimmable LED-drivers
- Compatible with all GE/TUNGSRAM LED fixtures with remote drivers
- Easy ceiling installation with strain relief
- 5-pole technology: LED module changeover and delayed power switching for the LED-driver

Benefits

- Constant power output in emergency mode
- Ground connection for LED-driver and LED module on mains terminal
- Suitable for escape route lighting, back-up lighting and particularly hazardous workplaces
- Deep discharge protection
- **Premium Lithium batteries (LiFePO4)** - compared to lead acid batteries - offer significant advantages:
 - **Safety and stability:** In case of hazardous events, such as collision or short-circuiting, this type of batteries doesn't explode or catch fire, significantly reducing any chance of harm. It can reach 350°C to 500°C
 - **Environmental Impact:** The batteries are non-toxic, non-contaminating and contain no rare earth metals, making them an environmentally conscious choice. Lead acid and nickel oxide lithium batteries, by comparison, carry significant environmental risk.
 - **Light weight:** The size of a battery of the same size is a 2/3 of the size of a lead acid battery, and a third of the weight of a lead acid battery.
 - **Performance:** The batteries perform well in several areas, especially life span. Service life usually at five to six years. Energy density is typically lower than certain counterparts, such as cobalt and nickel oxide. Battery charging time is also considerably reduced, another convenient performance perk.
 - **Improved discharge efficiency:** Ability to deep cycle while maintaining performance. The minimal maintenance and infrequent replacement makes lithium a worthwhile investment and smart long-term solution.



Batteries

- High-temperature cells 5° C – 50° C
- LiFePO4-batteries 3.2V-4.5Ah, 3x18650 cells
- Weight: 127g
- Charging time 24 h
- >6 years expected life duration
- 2 years warranty
- Battery regeneration for capacity optimisation

Structures and materials

Body: polycarbonate, body color: white

Application areas



General lighting



Office



Education



Healthcare



Retail

Specification summary

Product Code	Product Description	Operating Voltage	Frequency	Power output (W) in EM mode	Dimensions	IP rating	Control	Nominal input current	Weight [kg]
93100239	Emergency Kit G1 TU 3 Li D	220-240V	50/60 Hz	3W	292x81x-41mm	IP20	Dali	27mA max / 2.2mA average over 1 year	0.415
93100237	Emergency Kit G1 TU 3 Li N	220-240V	50/60 Hz	3W	292x81x-41mm	IP20	static		0.415
93100238	Emergency Kit G1 TU 3 Li S	220-240V	50/60 Hz	3W	292x81x-41mm	IP20	static		0.415

Order logic

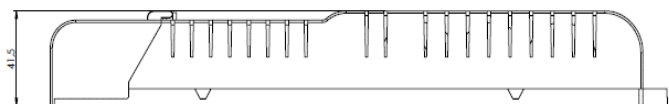
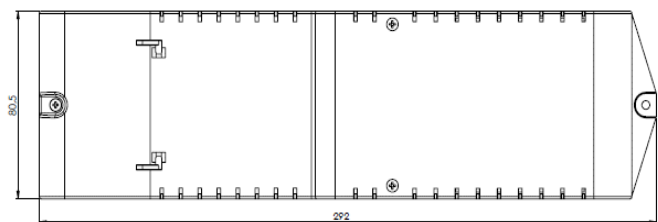
Internal Code	Generation	Brand	Operation Hours	Battery type	Options
Emergency Kit	G1 - Generation 1	TU - Tungsram	3 - 3h Operation	Li - LiFePO4	N - Normal S - Selftest D - Dali

Example: Emergency Kit G1 TU 3 Li D

Emergency Converter Kit for LED panels and downlighters with 3 hours LiFePO4 battery and Dali control

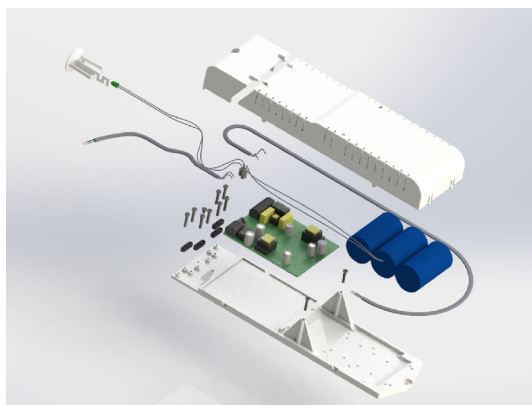
Dimensions (mm)

L 292 x W 81 x H 41 mm



Package list:

- Emergency Converter Box including electronic unit and battery
- LED indicator with leads and mounting bezel, Ø5mm green LED on 400mm long cable with connector
- Additional 400mm long cable for Slim DLR with male plug
- Additional 400mm long cable for Slim DLR with female plug



Regulatory and standards

Regulatory mark: CE

Regulations: 2014/35/EU, 2014/30/EU, 2011/65/EU, (framework 2009/125/EC) EU/1194/2012 amended by EU 2015/1428, (framework 2010/30/EC)






Harmonised standards: EN 60598, EN 62493, EN 61547, EN55015, EN 61000, refer to CE Declaration of Conformity and Technical File for details

*not on DOC

Selftest mode

- Selftest as per IEC 62034
- Two-coloured status display LED
- Status of battery
- Status of LED module

Visual status indication

	permanent green = no fault
	intermittently flashing green = test phase
	continuously flashing red = faulty battery
	intermittently flashing red = faulty lamp
	dark = faulty unit

LED green: no fault / normal state
















LED intermittently flashing green: The unit is in the test phase. The unit will carry out several full discharge cycles during the first 8 days.

LED continuously flashing red: battery fault by either insufficient battery capacity or interrupted connection. The alarm is reset once the fault is cleared.

LED intermittently flashing red: lamp fault. Please note that the fault is not indicated (or reset) immediately when it occurs (or is cleared), but after the next selftest.

LED dark (LED off): if the LED is still off for more than 5 minutes after switching on the mains, then the mains or the unit is faulty.

Product compatibility list

	93100237	93100238	93100239
Fixture range	Emergency Kit G1 TU 3 Li N	Emergency Kit G1 TU 3 Li S	Emergency Kit G1 TU 3 Li D
Edgelit Premium			
Edgelit Premium Dali			
Edgelit Eco G1			
Edgelit Eco G2			
Slim DLR Premium			
Slim DLR Premium Dali	