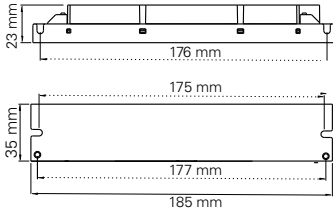
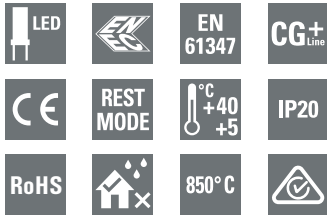


# Emergency Lighting

## Conversion Kit LED



Battery dimensions (in mm)

Type	L	W	H	Fixing centers
4AA	100 (140)	30 (34)	15 (20)	(125)
5Cs	215 (245)	25 (26)	25 (26)	(235)
4D	242 (285)	34 (35)	34 (35)	(270)
LiFePo4	134 (173)	31 (32)	31 (32)	(157)

Values inside parentheses refer to batteries with mounting caps

### Conversion Kit LED High Voltage

- Emergency lighting LED Driver for 40-180Vdc LED lamps. Output open voltage 200Vdc.
- Low profile casing (23 x 185 mm), for mains luminaire installation (build-in).
- Non maintained operation with Rest mode.
- 1h or 3h rated duration, selectable by jumper.
- Constant voltage output mode selectable by jumper: 48Vdc, 37mA max (4AA battery) / 90mA max (5Cs battery), 95mA max (LiFePo battery), 1h rated duration..
- Compatible with all dimmable and non-dimmable constant current mains LED Drivers.
- Maximum light output for all LED modules. Auto adjust LED current based on LED voltage for optimum battery usage.
- Soft start on transition to emergency operation / suppress peak currents on emergency start.
- Mains LED driver protection of operation without LED lamp: dedicated relay for disconnecting Live from mains LED driver, activating immediately after any mains failure or any test signal and before the disconnection of the lamp.
- 4-pole technology: LED lamp change over from mains LED driver through a dedicated relay offering full isolation from mains driver.
- Automatic shutdown of emergency operation if no LED lamp is connected on the output terminals or LED load is out of range.
- Deep discharge protection.
- Battery connectors for short-circuit-proof battery connection & polarity reversal protection.
- Re-chargeable NiCd and LiFePo battery packs.
- Test function by NO free contact / NC free conduct / Telecommand signal.
- Monitoring system CGL+ compatible variants available.

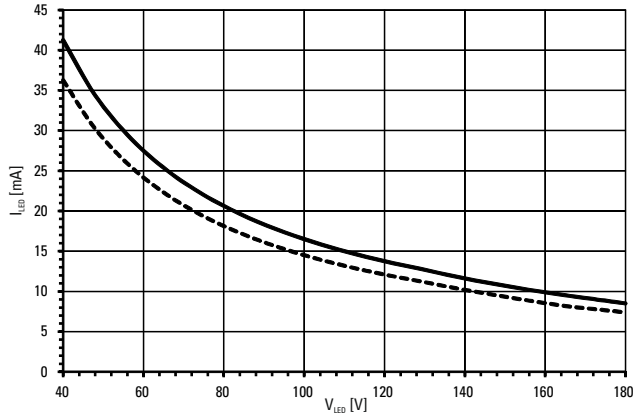
System Mode	non-maintained
Mains input voltage	230 V AC $\pm$ 10%
Mains frequency	50/60Hz
Mains consumption	20mA AC @ AA & L cell battery 30mA AC @ Cs & D cell battery
Power factor	0,47
Recharge period	24 hours / 16 hours on 2h variants
Charging monitor	green LED with cable 1m. bi-color green/yellow LED with cable 1m. for CGL+ bus
Test facility	by Telecommand signal by Normally Closed Push button by Normally Open Push button (not applicable on CGL+)
Duration	1 or 3h, selectable by jumper, 2h/3h only variants available
Permissible ambient temperature ( $t_a$ )	5..40°C
Case temperature max ( $t_c$ )	converter: 60°C / battery: 50°C
Housing material	polycarbonate
Housing colour	white
Mounting	M4 screws (2 options)
Terminals	mains (L/N unswitched) (L1 switched in/out) up to 1,5 mm <sup>2</sup> screwless pushwire & multicore
Battery	4AA NiCD 4,8V 0,8Ah 2x2pack 5Cs NiCD 6V 1,7Ah 5x1pack 4D NiCd 4,8V 4Ah 4x1pack 2LiFePO4 6,4V 3,2Ah 2x1pack
IP rating	20
Overheating protection	110°C
Short circuit protection	Non-inherently short circuit proof
Weight	125gr 225gr with 4AA cell battery 375gr with 5Cs cell battery 685gr with 4D cell battery 305gr with LiFePo4 cell battery

## Output Current / Voltage characteristics

The LED current in emergency mode is automatically adjusted by the Conversion Kit LED based on the total voltage of the LED modules connected and the associated battery

Order code: O-HVLD-4AA  
 Conversion Kit LED 40-180V  
 Emergency duration: 1h  
 Battery: 4,8V / 0,8Ah

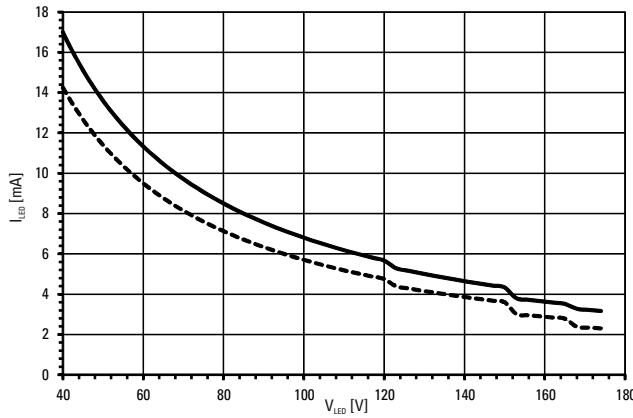
LED current: 7 – 40 mA  
 LED power: 1,55W typical  
 Constant Voltage (CV) output:  
 48Vdc / 37mAdc max



--- LED current at nominal battery voltage and min. battery discharge current  
 — LED current at nominal battery voltage and max. battery discharge current

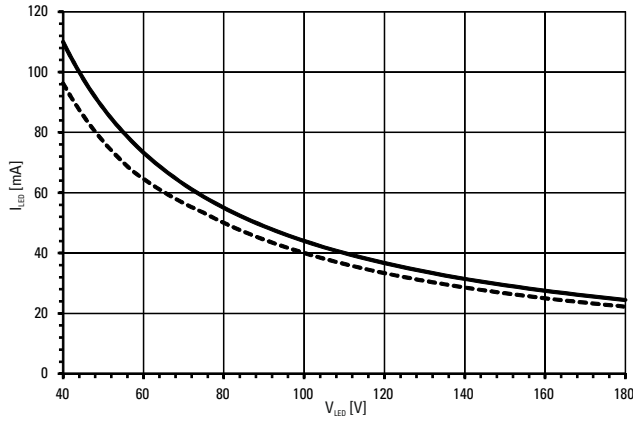
Order code: O-HVLD-4AA  
 Conversion Kit LED 40-175V  
 Emergency duration: 3h  
 Battery: 4,8V / 0,8Ah

LED current: 2,5 – 16 mA  
 LED power: 0,6W typical



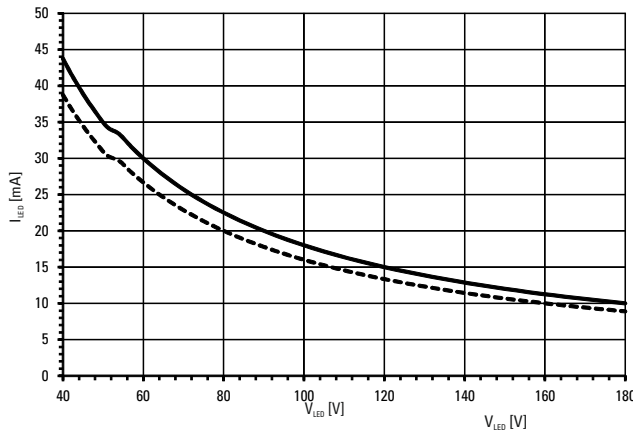
Order code: O-HVLD-5CS  
 Conversion Kit LED 40-180V  
 Emergency duration: 1h  
 Battery: 6V / 1,7Ah

LED current: 24 – 110 mA  
 LED power: 4,1W typical  
 Constant Voltage (CV) output:  
 48Vdc / 90mAdc max



Order code: O-HVLD-5CS  
 Conversion Kit LED 40-180V  
 Emergency duration: 3h  
 Battery: 6V / 1,7Ah

LED current: 9 – 43mA  
 LED power: 1,65W typical



# Emergency Lighting

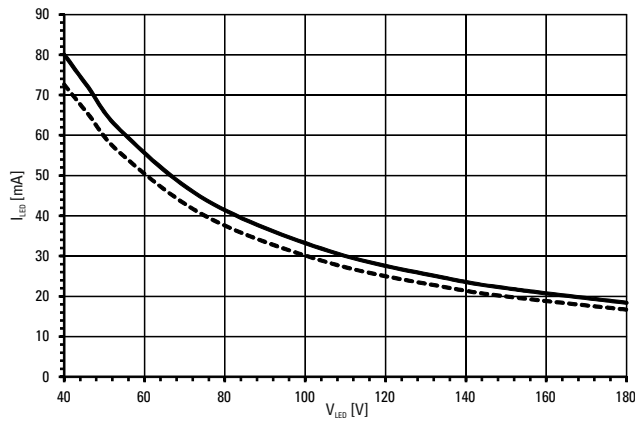
## Conversion Kit LED

### Output Current / Voltage characteristics

The LED current in emergency mode is automatically adjusted by the Conversion Kit LED based on the total voltage of the LED modules connected and the associated battery

Order code: O-HVLD-4D  
Conversion Kit LED 40-180V  
Emergency duration: 3h  
Battery: 4,8V / 4Ah

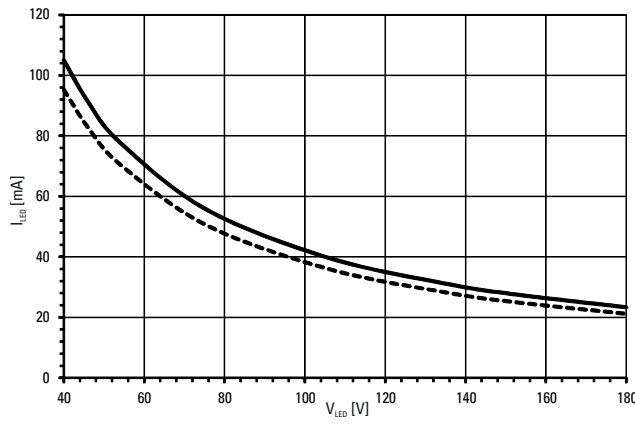
LED current: 18 – 76 mA  
LED power: 3,1W typical



- - - - - LED current at nominal battery voltage and min. battery discharge current  
— LED current at nominal battery voltage and max. battery discharge current

Order code: O-HVLD-4D-TB  
Conversion Kit LED 40-175V  
Emergency duration: 2h  
Battery: 4,8V / 4Ah

LED current: 22 – 100 mA  
LED power: 4W typical

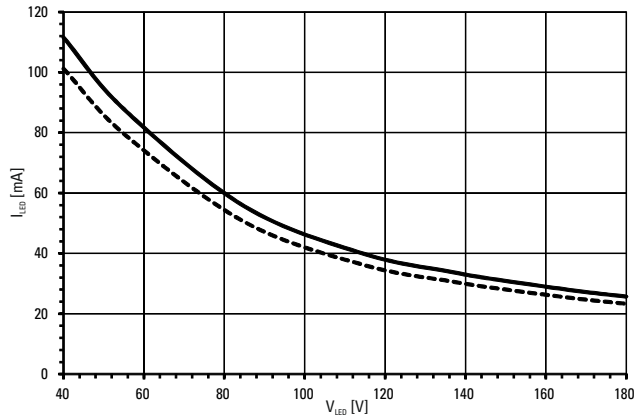


## Output Current / Voltage characteristics

The LED current in emergency mode is automatically adjusted by the Conversion Kit LED based on the total voltage of the LED modules connected and the associated battery

Order code: O-HVLD-2L-CGL  
Conversion Kit LED 40-180V  
Emergency duration: 1h  
Battery: 6,4V / 3,2Ah

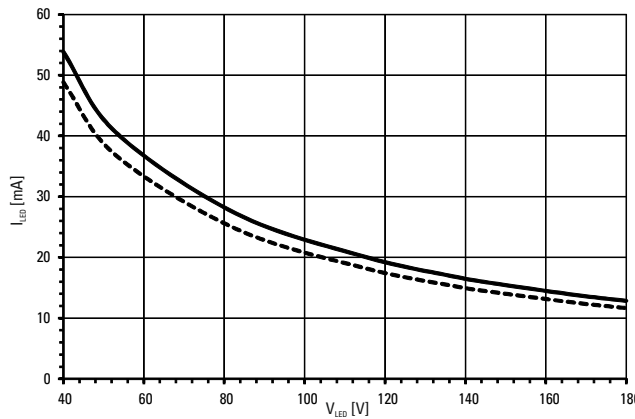
LED current: 24 – 106 mA  
LED power: 4,2W typical  
Constant Voltage (CV) output:  
48Vdc / 95mAdc max



--- LED current at nominal battery voltage and min. battery discharge current  
— LED current at nominal battery voltage and max. battery discharge current

Order code: O-HVLD-2L-CGL  
Conversion Kit LED 40-180V  
Emergency duration: 3h  
Battery: 6,4V / 3,2Ah

LED current: 12 – 52 mA  
LED power: 2,2W typical



## Ordering details

Scope of delivery	Order No.
Led Kit High Voltage Driver 40-180Vdc (48Vdc) / 4AA	O-HVLD-4AA
Led Kit High Voltage Driver 40-180Vdc (48Vdc) / 4AA, with Test button LED, 35 cm	O-HVLD-4AA-TB
Led Kit High Voltage Driver 40-180Vdc (48Vdc) / 5CS	O-HVLD-5CS
Led Kit High Voltage Driver 40-180Vdc (48Vdc) / 5CS, with Test button LED, 35 cm	O-HVLD-5CS-TB
Led Kit High Voltage Driver 40-180Vdc / 4D, 3h	O-HVLD-4D
Led Kit High Voltage Driver 40-180Vdc / 4D, with Test button LED, 35 cm, 2h	O-HVLD-4D-TB
Led Kit High Voltage Driver 40-180Vdc (48Vdc) / 2LF, CGL+	O-HVLD-2L-CGL
Led Kit High Voltage Driver 40-180Vdc (48Vdc) / 2LF, CGL+, with Test button LED, 35 cm	O-HVLD-2LCGLTB

## Accessory

Scope of delivery	Order No.
Conversion Kit LED Test Button, Normally Close, with LED charging indicator, 35 cm	O-CKL-TB
Conversion Kit LED CGL+ Test Button, Normally Close, with LED charging indicator, 35 cm	O-CKL-TB-CGL

Test button

