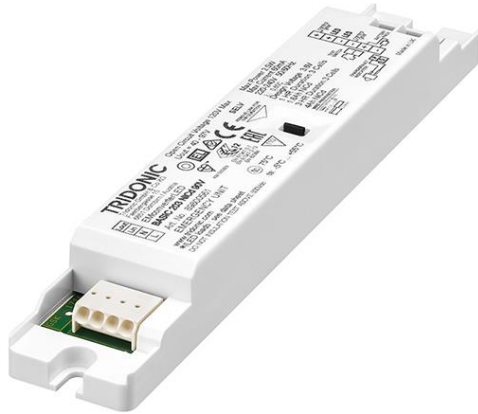


EM converterLED BASIC NiCd/NiMH 50 V

BASIC version

**Product description**

- _ Emergency lighting LED Driver for manual testing
- _ For self-contained emergency lighting
- _ For LED modules with a forward voltage of 10 – 54 V
- _ SELV for output voltage < 60 V DC
- _ Low profile casing (21 x 30 mm cross-section)
- _ For luminaire installation
- _ Nominal lifetime up to 100,000 h
- _ 5 years guarantee

Properties

- _ Non maintained operation
- _ 1 or 3 h rated duration
- _ Operating time selectable with plug (duration link)
- _ Compatible with all dimmable and non-dimmable constant current LED Driver (see data sheet, LED Driver compatibility)
- _ 3-pole technology: 2-pole LED module changeover and delayed power switching for the LED Driver
- _ Automatic shutdown of output if LED load is out of range
- _ Constant power output
- _ Maximum light output for all LED modules
- _ Electronic charge system
- _ Deep discharge protection
- _ Short-circuit-proof battery connection
- _ Polarity reversal protection for battery

Batteries

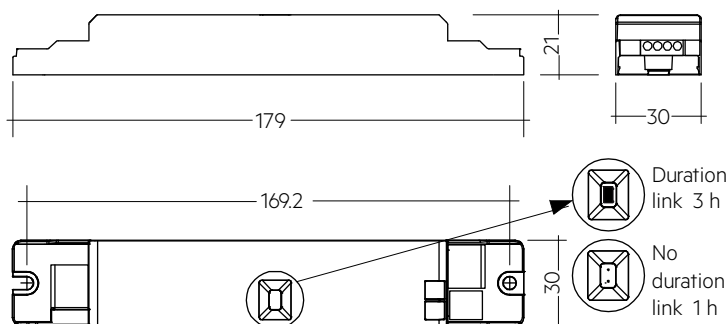
- _ High-temperature cells
- _ NiCd or NiMH batteries
- _ D, Cs or LA cells
- _ 4 year design life
- _ 1 year guarantee
- _ For battery compatibility refer to data sheet

Website
<http://www.tridonic.com/89800559>


EM converterLED BASIC NiCd/NiMH 50 V

BASIC version

The complete data sheet for this product is available in the Downloads section.



Note: Supply of control gear with duration link in 3 hours position. Remove duration link for duration of 1 h. Duration link must be set before battery and mains connection.

Ordering data

Type [®]	Article number	Rated duration	Number of cells	Packaging, carton	Packaging, pallet	Weight per pc.	Dimensions L x W x H
EM converterLED BASIC 203 NiCd/NiMH 50V	89800559	1/3 h	3	10 pc(s).	1,600 pc(s).	0.065 kg	179 x 30 x 21 mm

Technical data

Rated supply voltage	220 – 240 V
AC voltage range	198 – 264 V
Mains frequency	50 / 60 Hz
Typ. λ (at 230 V, 50 Hz)	0.6C
Forward voltage range LED module	10 – 54 V
Output current	See data sheet
Starting time	< 0.25 s from detection of emergency event
Overvoltage protection	320 V (for 48 h)
U-OUT (including open- / short-circuit and double load)	60 V
Max. open circuit voltage	60 V
Battery charging time ^{①②}	24 h
Ambient temperature t_a	-5 ... +55 °C
Max. casing temperature t_c	75 °C
Mains voltage changeover threshold	According to EN 60598-2-22
Mains surge capability (between L - N)	1 kV
Mains surge capability (between L/N - PE)	2 kV
Type of protection	IP20
Lifetime	up to 100,000 h
Guarantee	5 Year(s)
Dimensions L x W x H	179 x 30 x 21 mm

Approval marks**Standards**

according to EN 50172, according to EN 60598-2-22, EN 61347-1, EN 61347-2-13, EN 61347-2-7, EN 55015, EN 61000-3-2, EN 61000-3-3, EN 61547, EN 60068-2-64, EN 60068-2-29, EN 60068-2-30, EN 62384

Specific technical data

Type	Battery technology	Rated duration	Typ. output power P _{emergency}	Mains current in charging operation			Mains power in charging operation		
				Initial charge	Fast recharge	Trickle charge	Initial charge	Fast recharge	Trickle charge
EM converterLED BASIC 203 NiCd/NiMH 50V	NiCd	1 / -1 h	2.4 W	17 mA	17 mA	16 mA	2.3 W	2.3 W	1.7 W
EM converterLED BASIC 203 NiCd/NiMH 50V	NiCd	3 / -1 h	2.4 W	22 mA	22 mA	18 mA	3.4 W	3.4 W	2.3 W

① 16 h battery charging time for 2 h emergency lighting function according to AS 2293.

② 12 h battery charging time for 2 h emergency lighting function when used with NiCd and NiMH batteries.

③ EM = Emergency