TRIDONIC

EM converterLED BASIC MH/LiFePO4 90 V

BASIC version







Product description

- _ Self contained emergency lighting LED Driver for manual testing
- $_$ For LED modules with a forward voltage of 40 97 V
- _ SELV for output voltage < 120 V DC
- _ Low profile casing (21 x 30 mm cross-section)
- _ For luminaire installation
- _ 5-year 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 provided by 3-pole connector
- Automatic detection of the connected battery technology (NiMH or LiFePO4 batteries)

Batteries

- _ High-temperature cells
- _ NiMH or LiFePO4 batteries
- _ LA or 18650 cells
- _ 4-year design life for NiMH batteries
- _ 1-year guarantee for NiMH batteries
- _ 4 8 years design life for LiFePO4 batteries
- _ 3-year guarantee for LiFePO4 batteries
- _ For battery compatibility refer to datasheet, battery selection

Website

http://www.tridonic.com/89800578

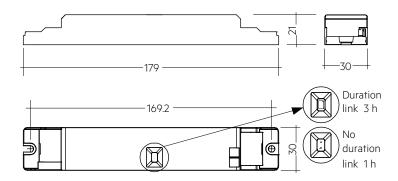


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The complete data sheet for this product is available in the Downloads section.



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 ^②	Article number	Rated duration	Packaging, carton	Packaging, pallet	Weight per pc.	Dimensions L x W x H	
EM converterLED BASIC 203 MH/LiFePO4 90V	89800578	1/3 h	10 pc(s).	1,600 pc(s).	0.07 kg	179 x 30 x 21 mm	
Technical data							
Rated supply voltage	220 – 240 V						
Mains frequency	50 / 60 Hz						
Forward voltage range LED module	40 – 97 V						
Output current	See data sheet						
Starting time	< 0.5 s from detection of	of emergency event					
Overvoltage protection	320 V (for 48 h)						
U-OUT (including open- / short-circuit and double load)	120 V						
Max. open circuit voltage	120 V						
Battery charging time ^①	24 h						
Ambient temperature ta	-5 +55 °C						
Max. casing temperature tc	75 °C						
Mains voltage changeover threshold	According to EN 60598	3-2-22					
Type of protection	IP20						
Dimensions L x W x H	179 x 30 x 21 mm						

Approval marks



Standards

Acc. to EN 50172, Acc. 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

Specific rechnical data										
	.e		230		Mains current in charging operation		Mains power in charging operation			
Туре	Battery technology	Rated durati	Typ. λ (at 23 V, 50 Hz)	Typ. output power P emergency	Initial charge	Fast recharge	Trickle charge	Initial charge	Fast recharge	Trickle charge
EM converterLED BASIC 203 MH/LiFePO4 90V	NiMH	1/-1h	0.60C	2.5 W	18 mA	18 mA	18 / 12 mA	2.6 W	2.6 W	2.6 / 1.4 W
EM converterLED BASIC 203 MH/LiFePO4 90V	NiMH	3 / -1 h	0.60C	2.5 W	21 mA	21 mA	21 / 12 mA	3.3 W	3.3 W	3.3 / 1.4 W
EM converterLED BASIC 203 MH/LiFePO4 90V	LiFePO4	1/-1h	0.60C	2.5 W	20 mA	20 mA	20 / 12 mA	2.8 W	2.8 W	2.8 / 1.4 W
EM converterLED BASIC 203 MH/LiFePO4 90V	LiFePO4	3 / -1 h	0.60C	2.5 W	25 mA	25 mA	25 / 12 mA	3.9 W	3.9 W	3.9 / 1.4 W

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

Emergency lighting units

EM converterLED

② EM = Emergency
③ In case of NiMH batteries: Intermittent charge is used. Value 1 is for 4 min. charge on / Value 2 is for 16 min. charge off. In case of LiFePO4 batteries voltage dependent constant current charging is used.