TRIDONIC

EM converterLED BASIC MH/LiFePO4 50 V

BASIC version







Product description

- _ Self contained emergency lighting LED driver for manual testing
- $_$ 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
- _ Compatible with Tridonic's LLE FLEX modules (ADV, EXC)
- _ 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 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 years guarantee for NiMH batteries
- _ 4 8 years design life for LiFePO4 batteries
- _ 3 years guarantee for LiFePO4 batteries
- $\underline{\ }$ For battery compatibility refer to data sheet, battery selection

Website

http://www.tridonic.com/89800708

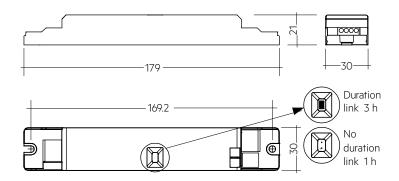




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The complete data sheet for this product is available in the Downloads section.



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 ®

| Type [®] | Article number | Rated duration | Packaging, carton | Packaging, pallet | Weight per pc. | Dimensions L x W x H | | | | |
|---|---|----------------|-------------------|-------------------|----------------|----------------------|--|--|--|--|
| EM converterLED BASIC 202A MH/LiFePO4 50V | 89800708 | 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 | 10 – 54 V | | | | | | | | | |
| Output current | Refer to data sheet | | | | | | | | | |
| Starting time | < 0.5 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 ^{©©} | 24 h | | | | | | | | | |
| Ambient temperature ta | -5 +55 °C | | | | | | | | | |
| Max. casing temperature tc | 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

| | | Rated duration | Τγρ. λ (at 230 V, 50 Hz) | | Mains current in charging operation | | | Mains power in charging operation | | |
|--|-----------------------|----------------|-----------------------------|-------------------------------------|-------------------------------------|------------------|-------------------|-----------------------------------|------------------|-------------------|
| Туре | Battery technology | | | Typ. output power P emergency | Initial charge | Fast recharge | Trickle charge | Initial charge | Fast recharge | Trickle charge |
| EM converterLED BASIC 202A MH/LiFePO4 50V | NiMH | 1/-1h | 0.60C | 2.3 W | 17 mA | 17 mA | 17 / 12 mA | 2.4 W | 2.4 W | 2.4 / 1.4 W |
| EM converterLED BASIC 202A MH/LiFePO4 50V | NiMH | 3 / -1 h | 0.60C | 2.3 W | 18 mA | 18 mA | 18 / 12 mA | 2.6 W | 2.6 W | 2.6 / 1.4 W |
| EM converterLED BASIC 202A MH/LiFePO4 50V | LiFePO4 | 1/-1h | 0.60C | 2.3 W | 17 mA | 17 mA | 17 / 12 mA | 2.1 W | 2.1 W | 2.1 / 1.4 W |
| EM converterLED BASIC 202A MH/LiFePO4 50V | LiFePO4 | 3 / -1 h | 0.60C | 2.3 W | 20 mA | 20 mA | 20 / 12 mA | 2.9 W | 2.9 W | 2.9 / 1.4 W |
| 16 h battery charging time for 2 h emergency lighting function acc 12 h battery charging time for 2 h emergency lighting function wh EM = Emergency In case of NiMH batteries: Intermittent charge is used. Value 1 is for | en used with LiFeP | O4 batteries. | or 16 min. charge | e off. In case o | ıf LiFePO4 է | patteries volt | age dependent co | onstant curi | rent chargir | ng is used. |