

PRESS RELEASE

Emergency lighting compliant with DALI-2 Part 202 – future-proof through compatibility

First Tridonic LED drivers for emergency lighting applications certified to DALI-2 Part 202 (IEC 62386-202 version 2)

Dornbirn, 2 March 2022. **Tridonic's EM powerLED PRO LiFePO4 1-4W is the first generation of LED drivers for emergency lighting applications that are certified to DALI-2 Part 202.**

A standard with a past and future

A DALI-2 standard for "Self-contained emergency control gear" was released in September 2021. Essentially, DALI-2 Part 202 defines bidirectional communication between an emergency luminaire and the associated lighting management system. Consequently, the new part of the standard particularly focuses on multi-vendor interoperability of these safety-critical components. This means users can be confident that emergency lighting components certified to DALI-2 Part 202 "speak the same language". This simplifies project design and makes it easier to select components for emergency lighting systems.

The standard IEC 62386-202, first released in 2009, was updated to version 2 last autumn after 12 years. As a member of the DALI Alliance (formerly the Digital Illumination Interface Alliance, DiiA), Tridonic played a part in defining the DALI standards and DALI-2 by participating in committees. Tridonic was also proactively involved in the new Part 202. The company, which is headquartered in Dornbirn, Austria, is committed to taking an active role in standards that provide greater compatibility between lighting components, and therefore allow lighting solutions to be implemented more easily.

"At Tridonic, we prioritise interoperability right from the development stage," explains Thomas Ender, Vice President Product Marketing at Tridonic. "By being actively involved in standards such as DALI-2 Part 202, we can share our

expertise with the industry and ensure interoperability. We always develop our solutions in compliance with the latest standards. Because of this, we are now able to offer the first emergency lighting LED driver that is certified to DALI-2 Part 202."

First emergency lighting LED driver certified to DALI-2

The EM powerLED PRO LiFePO4 1-4W driver marks a new generation of self-contained emergency lighting LED drivers that has been developed for emergency luminaires and emergency exit luminaires. The drivers, containing sustainable lithium iron phosphate batteries (LiFePO4), are the first emergency lighting LED drivers to be certified to DALI-2 Part 202. The drivers also bear the lumDATA label – Tridonic's mark to indicate compliance with the three main DALI or D4i specifications for data collection: DALI Part 251 (luminaire data), DALI Part 252 (energy data) and DALI Part 253 (diagnostics data). That means the benefits of lumDATA now apply to emergency lighting applications too: luminaire data allows installed luminaires to be monitored efficiently, while greatly simplifying luminaire commissioning and maintenance. Energy data shows the consumption of each luminaire in the entire installation. Diagnostics data is used for predictive maintenance, because it records errors in defective devices such as overvoltage or overtemperature.

Interoperability allows greater flexibility

Thanks to the interoperability guaranteed by DALI-2, the certified components can be freely combined with other lighting components that are certified to DALI-2. This creates more options for luminaire manufacturers and means they do not have to depend on proprietary solutions from individual manufacturers. Consequently, all DALI-2-certified emergency lighting drivers can be combined with certified DALI-2 lighting management systems without further testing being required. Plus, the release of the new DALI-2 Part 202 standard means manufacturers can now have their emergency luminaires with built-in DALI-2 emergency lighting drivers certified as DALI-2 luminaires.

Image 1

The LED emergency lighting drivers in Tridonic's EM powerLED PRO LiFePO4 1-4W series are the first self-contained emergency lighting components to be certified to DALI-2 Part 202.

Press contact

Markus Rademacher
Tridonic GmbH & Co KG
Tel.: +43 5572 395 – 45236
markus.rademacher@tridonic.com

About Tridonic

Tridonic is a world-leading supplier of lighting technology, supporting its customers with intelligent hardware and software and offering the highest level of quality, reliability and energy savings. As a global driver of innovation in the field of lighting-based network technology, Tridonic develops scalable, future-oriented solutions that enable new business models for lighting manufacturers, building managers, systems integrators, planners and many other types of customer.

To promote the vision of the “Internet of Light”, Tridonic relies on partnerships with other specialists. The goal is the joint development of innovative technological solutions that convert lighting systems into intelligent networks and thereby enable associated services. Tridonic’s in-depth industry expertise makes it an ideal driver for partnerships with other visionaries.

Tridonic is the technology company of the Zumtobel Group and is headquartered in Dornbirn, Austria. In the 2020/21 fiscal year, Tridonic achieved sales of 302.8 million euros. 1,808 highly skilled employees and a worldwide sales presence in over 70 countries provide the basis for developing and launching new, smart and connected lighting systems.

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