
INTERSOLAR 2024 SOLUTIONS FOR SAFE + SMART POWER MANAGEMENT

SAINT BONNET DE MURE, MAY 13TH, 2024 – Innovative solutions for power management in electrical energy storage systems and surge protection for photovoltaic systems: Mersen will present these and other products at Intersolar 2024 in Munich. One of the highlights at the Mersen booth will be Surge-Trap[®] K: an entirely new generation of surge protection device including specific solutions for both PV and BEES applications, not to mention EV charging infrastructures. Surge-Trap[®] K is optimally designed for the challenges of the energy transition and is suitable for even the most demanding applications and standards (IEC/EN and UL). These SPDs (surge protection devices) are patented worldwide and exceed the market standard. They are produced in Europe, using sustainable processes.

The Mersen exhibit at Intersolar will also include DC PV junction boxes: these pre-installed generator junction boxes protect inverters from lightning related voltage surge. DC PV protection boxes are mounted parallel to the inverter and are available with different configurations. Designed for easy installation, they are ideal for use in 1000 VDC roof installations.

Another highlight will be the new Mersen ProGrid NH fuse switch disconnecter for electrical protection up to 800 VAC/910 A. This modular system not only protects photovoltaic installations against surge currents – it also measures the current flow from the photovoltaic inverters to the grid connection. During the development of the ProGrid offer, Mersen has worked closely with leading grid operators in Germany and other European countries to support them with their day-to-day challenges. As a result, ProGrid SmartStation is ideally suited to enable smart low-voltage grid operators to efficiently adapt their distribution networks, gain flexibility and efficiently balance new and increasing loads and power sources such as PV installations.

Overcurrent protection and monitoring solution in one

ProGrid fuse switch disconnectors feature a patented opening and switching mechanism to maximize user protection against electrical contact. Mersen offers different versions of the switches: Mersen ProGrid protects substations against overcurrent and short circuits. Mersen ProGrid Smart, by comparison, features an additional smart Modbus-RTU module, which can be mounted either on the top or bottom of the fuse switch disconnecter. The smart module is equipped with current sensors and voltage inputs for optimal monitoring of the power flow. Up to 24 smart ProGrid switches can be connected in sequence through daisy-chaining. The third variant is the Mersen ProGrid SmartStation: This version can be combined with numerous additional sensors and modular measuring instruments to create a complete monitoring system for transformer stations and substations.

Fuses boost the efficiency of energy storage systems

In addition to solutions for protecting PV systems, the Mersen exhibit will also include ABAT and GBAT fuses for electrical energy storage (EES) systems. They increase the reliability and efficiency of storage systems against very small surge currents and DC fault currents up to 150kA.

Visit Mersen at Intersolar from 19 to 21 June 2024 in Munich at stand B4.580.

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ABOUT MERSEN

Mersen is a global expert for electrical power and advanced materials for high-tech industries. With more than 135 years of experience, the company is represented in over 50 industrial locations and 18 R&D centers in 34 countries.

Mersen Electrical Power offers a broad product portfolio in the area of electrical protection and control, in addition to solutions for power management applications. For the development and delivery of custom tailored solutions and key products for various key markets such as trade, industry, renewable energies, power electronics and eMobility, the teams at Mersen Electrical Power work together with customers around the world. Mersen's mission is to make customer applications safer and more reliable. For more information, please visit ep.mersen.com.

THE GROUP IS LISTED ON EURONEXT PARIS – SECTION B.

Captions



Mersen-ProGrid-NH-fuse-switch-disconnectors.jpg: Mersen's innovative ProGrid NH fuse switch disconnectors will be a highlight at Intersolar 2024

Photo: Mersen



Mersen-ABAT-GBAT-fuses.jpg: ABAT and GBAT fuses from Mersen provide effective protection for battery and energy storage systems

Photo: Mersen



Mersen-Surge-Trap-K.jpg: Surge protection device solutions optimally designed for the challenges of the energy transition in EV charging infrastructures, PV and BEES applications

Photo: Mersen

Meta title

Mersen at Intersolar 2024

Meta description

Mersen will present innovative solutions for protecting PV installations and energy storage systems.

Keywords

electrical energy storage, EES, PV, photovoltaic, fuses, energy storage systems, battery racks, battery arrays, battery containers, renewable energies, energy transition, fuse switch disconnectors, surge current, surge voltage, digitalization, Mersen, Intersolar 2024

Deep links:

<https://ep-de.mersen.com/en/products/series/dc-pv-junction-boxes>

<https://ep-de.mersen.com/en/mersen-progrid>

Download area: <https://www.koehler-partner.de/pressezentrum/mersen>

Contact Mersen

Simon LANDRIVON

Marketing Communication Manager, Europe

Mersen

+33 4 72 22 67 47

simon.landrivon@mersen.com

Contact PR Office

Alena Meyer

Public Relations

Köhler+Partner GmbH

+49 4181 92892 75

am@koehler-partner.de