



# Hoppecke sun power vr battery

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In dieser Welt, in der alles elektrisch wird, ist HOPPECKE Ihr Lösungspartner für eine nachhaltige und technologieunabhängige Energieversorgung. Denn unsere Kunden haben die Wahl: Ob Blei-Säure, Nickel-Faserstruktur (FNC(R)) oder Lithium-Ionen. HOPPECKE hat alle relevanten Speichertechnologien im Portfolio. Unser umfassendes Produkt-, Beratungs- und Dienstleistungsangebot bietet Lösungen für Ihre Anforderungen und Herausforderungen in den Bereichen:

- emissionsfreie Antriebe von Flurförderzeugen und Maschinen (trak) - abgesicherte Stromversorgung u.a. von Rechenzentren, IT- und Telekommunikationsanlagen (grid) - Speicherung regenerativer Energien für Off- und Ongrid-Anwendungen (sun) - Absicherung und Antrieb von Bahn- und Metrosystemen (rail).

Mit Hauptsitz in Brilon-Hoppecke und 22 internationalen Tochtergesellschaften gehören weltweit mehr als 2.000 Mitarbeiter und Mitarbeiterinnen zur HOPPECKE Familie. HOPPECKE ist heute der größte europäische Hersteller von Industriebatterien in privater Hand.

From hot and cold temperatures to heavy vibrations, our specially tailored systems do their job around the world in some of the toughest conditions imaginable. With their smart technological innovations, HOPPECKE drive batteries are in use from Siberia to the Sahara. These uses include powering public transportation, such as subway trains or automated people movers at airports.

With its rail portfolio, HOPPECKE has been a reliable partner for efficient rail battery solutions for over 30 years, always well prepared for the challenges of the future. Being the single partner of choice for all necessary technologies means having the right solution for every customer need. Alongside its unique FNC(R) technology for extreme requirements, HOPPECKE also offers lithium-ion and lead-acid batteries.

HOPPECKE has delivered over 2.5 million FNC(R) cells to customers in the railway sector around the world. This success is down to the many advantages that the FNC(R) technology has over other energy storage systems. No other nickel-cadmium technology is better suited for the production of special formats than fibre-structure technology. Its enormous versatility allows us to meet the many specific needs of our customers.

Gas- and electrolyte-tight terminals ensure excellent operational reliability. HOPPECKE system connectors also increase protection against short circuits here as early as the assembly stage. The plastic-insulated lead poles contain brass inlets, which ensure good high-current capability. The batteries are fitted in sturdy plastic casings. They can withstand shocks and vibrations well beyond those that batteries are typically exposed to in railway applications.

The rail | power V is a tried-and-tested technology based on tubular and grid plate electrodes with liquid



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electrolytes. The electrodes are designed using lead-antimony technology. The batteries are fitted in sturdy polypropylene casings. rail | power V batteries operate reliably in onboard power systems in all rail vehicles.

The vented HOPPECKE rail | power VR offers patented technology based on grid electrodes and a fleece separator. The electrodes are designed using proven lead-calcium technology. The electrolyte contains a gel additive (ESS technology) and is integrated in the fleece separator. This means that this technology combines the benefits of both fleece and gel batteries. The batteries are fitted in casings made from sturdy polypropylene or ABS. rail | power VR batteries operate reliably in onboard power systems in all rail vehicles. They are also used as starter batteries in diesel vehicles.

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