

PRESS RELEASE

HVR®280: High-voltage connectors for electric vehicle applications

Up to 310 A / 1200 V – reduced system complexity and assembly-optimized design

Fridolfing, Germany, May 21, 2026 – Rosenberger has introduced the HVR®280, a high-voltage connector designed for modern e-mobility platforms. The series combines high performance with a simplified design and operates at voltages of up to 1200 V DC and currents of up to 310 A at 85 °C.

Applications include battery packs, inverters, power distribution units (PDUs), and drive units in hybrid, plug-in hybrid, battery-electric, and fuel cell vehicles.

The development focused on reducing system complexity while meeting increasing performance requirements. The reduced number of components simplifies assembly and integration, and the design is specifically tailored to automated manufacturing processes. This shortens assembly times and increases process reliability — a decisive factor for OEMs and cable assemblers.

Optimized for integration and manufacturing

The assembly-optimized design supports cable cross-sections of 35 mm², 50 mm² and 70 mm² for both copper and aluminum wires. Straight and right-angled cable connectors can be combined with the same header, enabling flexible integration while reducing the required installation space, weight, and materials. The design also facilitates integration into existing production lines for automated cable harness production.

A locking mechanism with a lever and CPA ensures a secure connection, and HVIL (High Voltage Interlock) is available as an option. The connector is RoHS-compliant and manufactured according to the 'local-for-local' principle.

Designed for high-performance applications

With an operating voltage of up to 1200 V DC and a current capacity of 310 A at 85 °C, the HVR® 280 is ideal for current and future generations of vehicles. The system also offers a short-time current capacity of up to 653 A for 100 seconds.

Compliant with vibration class V2 in accordance with DIN/TS 70214:2025-11 PG 17, as well as the temperature profile per DIN EN IEC 60068-2-14 (VDE 0468-2-14), the series is also qualified for operation in demanding environmental conditions.

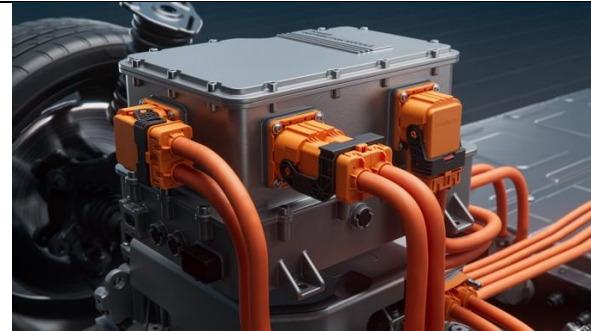
"The HVR®280 consistently meets the growing demands of e-mobility. Thanks to its design for automated manufacturing processes and reduced system complexity, production workflows can be made more efficient. At the same time, the solution meets the requirements of major global OEMs, offering clear added value to our customers," says Günther Höfelmeier, Global Director of Product Management for E-Mobility at Rosenberger.

The HVR®280 series comprises straight and right-angled cable connectors, as well as matching header variants. Optional feed-through designs are also available for busbars. All variants are compatible with one another and are designed for automated manufacturing processes.

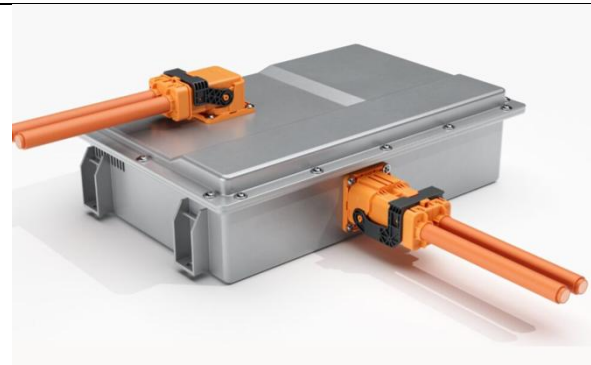
Further information at: <https://www.rosenberger.com/product/hvr280/>

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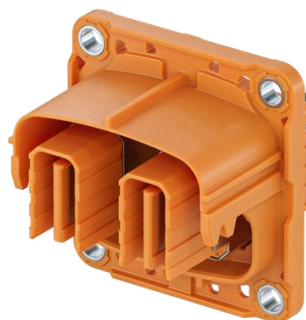
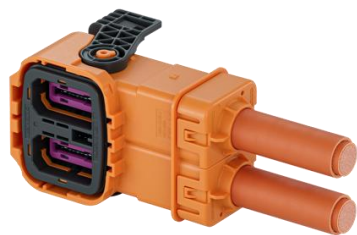
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The HVR[®] 280 cable connector is available in straight and right-angle versions. It is designed for use in battery packs, drive units, power distribution units, and inverters in electric and hybrid vehicles.



The straight and 90° angled cable connectors are both compatible with all headers and feature a reliable locking mechanism with a latch and CPA (Connector Position Assurance).



The matching headers offer high packing density, are suitable for various contact configurations and feature an optional through-hole design for busbars.

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About Rosenberger

Rosenberger is a globally renowned manufacturer of electronic components and systems, recognized for cutting-edge technologies, engineering excellence, and uncompromising quality. Headquartered in Germany, the Rosenberger Group operates worldwide with numerous sales and production locations, offering a broad range of standardized and customized connectivity solutions in RF, high-voltage, and fiber optic technologies.

Rosenberger ensures the reliable transmission of signals, data, and power in the most demanding application areas. Leading high-tech companies across sectors such as mobile communications and telecommunications, industrial measurement technology, automotive electronics, medical and industrial electronics, data centers, and aerospace rely on Rosenberger products for their precision and outstanding reliability.

The company's CNC machining division produces precision parts for various industries, including the automotive and commercial vehicle sectors, shipbuilding, and classic mechanical and plant engineering.

Since its founding in 1958, Rosenberger has been family-owned and currently employs around 15,500 people worldwide. The company's employees are known for their dedication, innovative spirit, and commitment to quality, all firmly rooted in the values of a traditional family business.

For more information, please visit: www.rosenberger.com

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