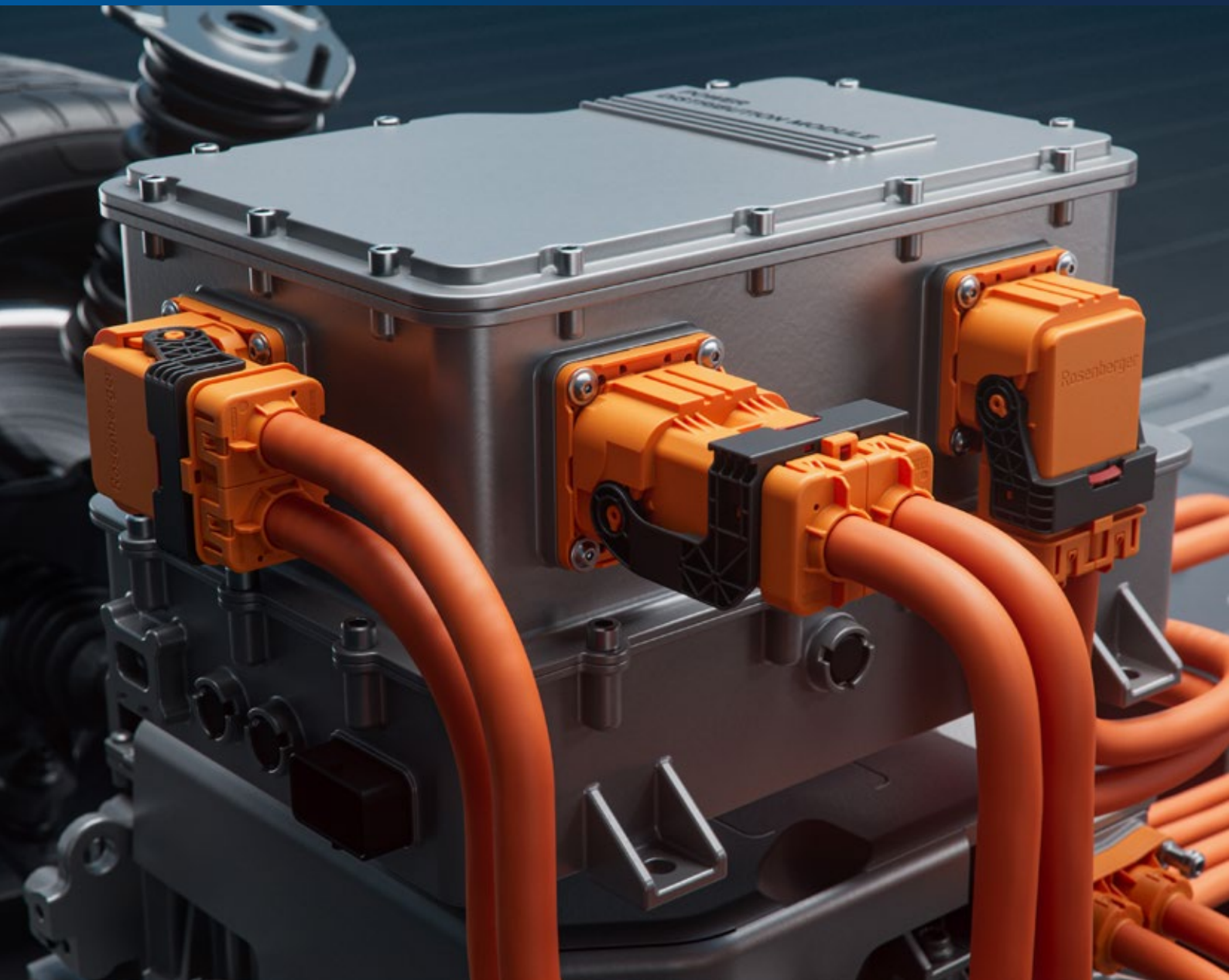


Rosenberger

Reduced Complexity - Simplified Assembling Process

HVR[®]280 – High-Voltage Connectors Shielded up to 310 A/1200 V

AUTOMOTIVE E-MOBILITY





HVR®280 | The Next Generation High-Voltage Connector for E-Mobility

HVR®280 Fullfills Global OEM Specifications and Simplifies Manufacturing Processes for Harness Makers

The HVR®280 series sets a new benchmark for high-voltage and high-current connectors up to 1200 V, fully meeting the specifications of global OEMs. It combines outstanding electrical performance with a design optimized for efficiency and integration.

Its automated assembly concept for cable cross sections 35 mm², 50 mm² and 70 mm² significantly simplifies manufacturing processes for harness makers. By reducing components to the essential minimum, the HVR®280 becomes one of the most flexible and easily integrable connector solutions available on the market. The series delivers a safe and reliable electrical connection, even in harsh environmental conditions, while enabling higher power levels. Compact dimensions help reduce costs, material usage, weight, and installation space, supporting efficient vehicle packaging.

Why HVR®280?

HVR®280 reduces system complexity and assembly effort:
Reduced component count → lower system complexity
Optimized for automated assembly → faster production
Compact design → reduced weight & space
High performance up to 1200 V → future-ready

HVR®280 meets the specifications of all global OEMs

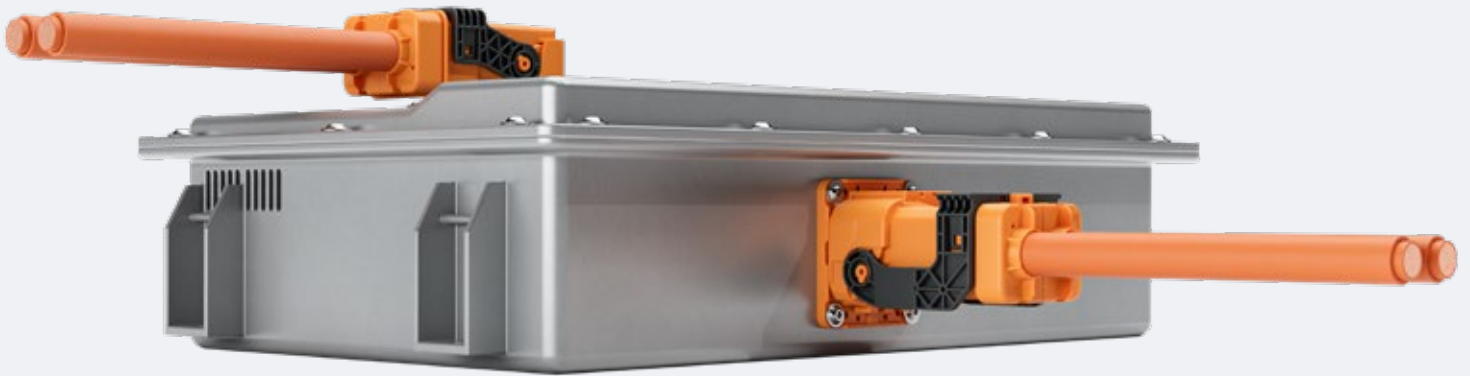
- Reducing components to the essential minimum
- Flexible and easily integrable
- Electrically safe and reliable
- Proof for harsh environmental conditions
- Compact dimensions
- Reduced costs, material usage, weight and installation space
- RoHS compliant
- Highly cost optimized
- Local for local production

Technical Data

- Shielded
- Cable cross sections 35 mm², 50 mm², 70 mm²
- Current capacity 310 A at 85 °C, high short term current capacity 653 A for 100 s
- Working voltage 1200 V DC
- Optional with HVIL
- Copper, aluminum cables
- DIN/TS 70214:2025-11 PG 17 Vibration class V2
- Temperature profile according to DIN EN IEC 60068-2-14 (VDE 0468-2-14)

Applications

- Battery pack
- Drive unit / E-Motor
- Power Distribution Unit
- Inverter



HVR®280 | Reduced Complexity | Handling Friendly | Simplified Assembling Process

HVR®280 Cable Connector

- Right angle and straight connectors
- Stable and reliable performance
- High current capability
- Assembly of single core cables of 35 mm², 50 mm² and 70 mm²
- Right angle and straight female connectors are mateable with the same header
- Pollution degree 2
- Easy and seamless integration into automated assembly process
- Locking mechanism with lever and CPA (Connector Position Assurance)
- Aluminum and copper wires for each cross section applicable



HVR®280 Header

- Capable of different terminal connections
- Optional pass-through design for bus bars
- High packing density
- HVIL optional available





Website

For more information refer to our website:
www.rosenberger.com/hvr280

Rosenberger

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Certified by IATF 16949 · DIN EN 9100 · ISO 9001 · ISO 14001 · ISO 45001 · ISO 50001

Order No.

10254693 · Info2HVR280FlyEN

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