

INTERFUSION800M

High voltage distribution unit

With the **INTERFUSION** high-voltage distribution system, the main components battery, charger, inverter, motor and the fast-charging system can be connected. In this combination of the **FUSION800M** and **INTERFLOW500** products, all positive connections are fused and the fast-charging system is equipped with HV relays and current and voltage measurement.

Typical applications are electrified machines and vehicles with increased demands on robustness and safety, such as construction machinery, commercial vehicles and municipal vehicles.

Features

- 2x connections 175 A to 600 A (1x reserved for fast charging)
- 4x connections 60 A to 400 A
- 4x connections 60 A to 150 A
- 6x connections 5 A to 50 A
- Short-circuit bracket
- Potential equalization
- EMC glands (connectors on request)
- Pressure compensation element
- Insulation monitor (optional)
- Mainboard (interlock switch, temp. sensor)
- Access for measuring tips with additional safety cover
- CCS 2.0 communication according to DIN70121 and ISO15118
- CAN communication with vehicle control (optional)
- Galvanically isolated HV current and voltage measurements



Specifications

System voltage	Up to 800 VDC
Rated current	500 A*
Supply voltage	12 / 24 V
Fuse protection	Positive pole
System weight	25 kg (fully assembled)
Ambient temperature	-40 – 85 °C
Protection class	IP67
Dimensions (L x W x H)	600 x 350 x 135 mm
Standards & norms	IEC 61439-1, -2 (general) IEC 60664-1 (electric) ISO 16750 (environment)

*time- & temperature-dependent

