

Power distribution unit



E-MOBILITY

Advanced solutions to optimize electrified vehicle architectures. Auxiliary protection housing (PDU - "Power Distribution Unit") used for light and commercial vehicle application.



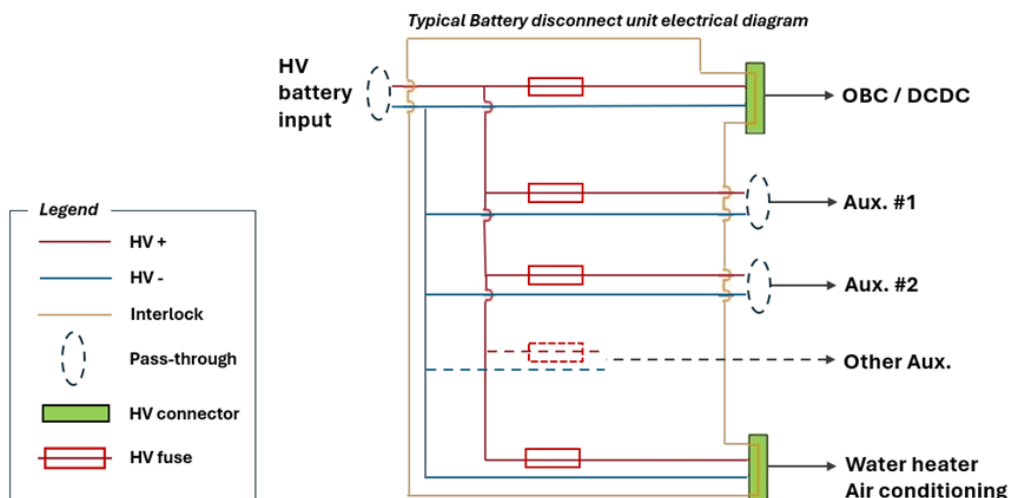
Power Distribution Unit – PDU

Located between the electrical vehicle powertrain (E-drive) and the vehicle's auxiliary systems (heating & air conditioning, power steering, etc.), equipped with high-voltage (HV) fuses, the PDU distributes and protects the vehicle's auxiliary systems against short circuits and over-currents. Generally integrated close to the E-Drive, the PDU is designed to be compact, lightweight and easily accessible, simplifying its installation and maintenance in case of fuse replacement.

Main Features

- Nominal operating voltage: 400 or 800 Volts.
- HV insulation according IEC60664.
- Removable HV Fuses or fixed bases configuration.
- Designed to meet selectivity with upstream protections (battery disconnect unit).
- Designed to ensure coordination with cable heating/melting curves.
- Switch interlock, HV test point (optional).
- Type of Enclosure: Aluminum or Thermoplastic.
- Type of connection: Pass-through cable or connectors.

Functional electrical diagram



PDU – "Power Distribution Unit" for a light vehicle application. Many other configurations are possible.