

PDU500 Smart High Voltage Power Distribution Unit



Hypermotive's PDU500 is a highly versatile product for safely connecting high voltage (HV) energy sources including supercapacitors, batteries and fuel cells to application loads. With intelligent embedded control, the unit provides a wide range of safety and diagnostic features including isolation monitoring, contactor fault detection and short circuit protection. Housed in a sealed metal enclosure to IP67, the unit is suitable for use in harsh environments including under vehicle.

Custom Configuration

Hypermotive's experienced engineering team can adapt this product's hardware and/or software to your specific vehicle and application requirements. Please contact us to discuss feature configuration and packaging options.

Key Features

- CAN control interface
- HV contactors (500A, 500V)
- HV pre-charge function with short circuit fault detection
- HV contactor weld detection
- HV fuse and inertial crash switch
- HV isolation monitoring
- HVIL controller
- LV power distribution, fusing and CAN controlled switching
- Capacitor discharge capability
- IP67 enclosure

Typical Applications

- Supercapacitor KERS
- Hydrogen fuel cell
- Distributed Li-Ion battery
- Truck / bus
- Passenger vehicle