

HV PDU

High Voltage Power Distribution Unit

Whether you're designing an electric vehicle (EV) for the road or manufacturing an off-highway electric vehicle, you need solutions to reliably deliver power, protect vehicle components, and keep end-users safe while reducing your system costs.

That's why Littelfuse offers customizable high-voltage power distribution units (HV PDUs), which can be tailored to optimize power distribution in specific EV systems. Our HV PDUs, which combine our high-voltage DC contactors and fuses with current sensing, thermal protection, on-board charging, and other capabilities, are flexible and ready to handle the challenges of powering next-generation vehicles.

Our engineers will work with you to customize and develop an HV PDU configuration to meet the requirements of your application.

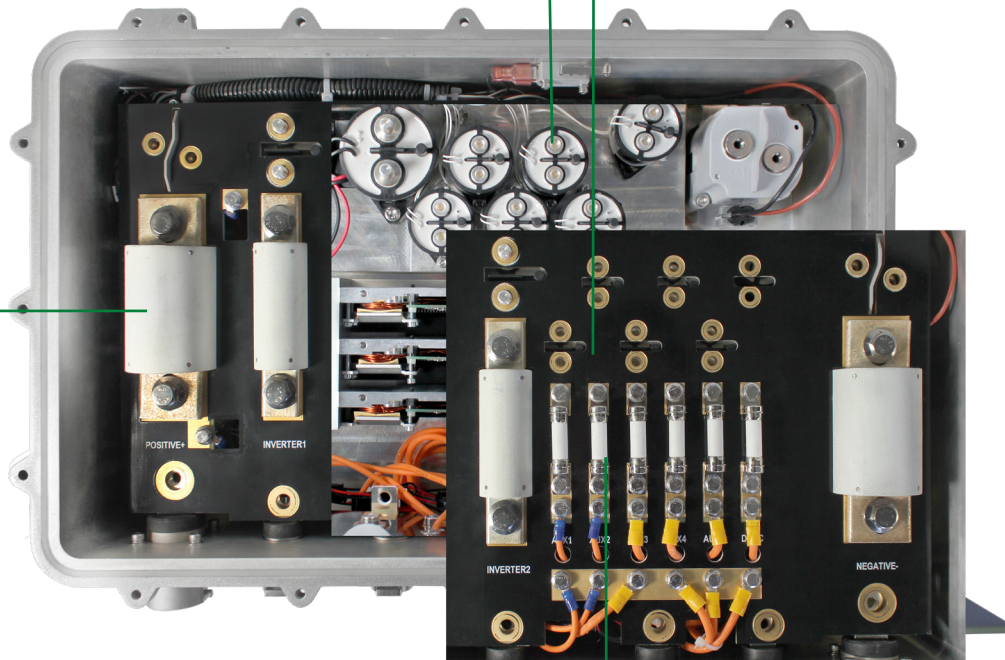


DC Contactors

We offer a growing portfolio of high-voltage DC contactors developed specifically for EV and alternative energy applications. With magnetic arc blowouts, coil economizers, and polarized and non-polarized options, our HV DC contactors are safe, reliable, and efficient.

Bussing Systems

PCBAs and busbars in our customizable HV PDU optimize power distribution.



Fuses

To protect high-voltage, high-current on-board applications in electric and hybrid vehicles as well as off-board charging, we offer high-voltage fuses that have been built to meet the stringent requirements and standards of the EV industry.

Customizable

Built within an IP67/6K9K-rated centralized junction box, our HV PDUs provide customizable system integration of:

- DC/DC conversion
- Current and voltage measurement
- On-board charging
- Insulation monitoring
- Pre-charge functions
- HVIL and shielding

Current Sensing

In-house-designed DC current sensing capabilities can be built into our HV PDUs to help ensure the smart management of available battery power, increasing vehicle efficiency and promoting smooth operation.

Thermal Simulations and Testing Capabilities

Our global team of engineers designs innovative solutions and performs product testing to ensure you have the best solution that meets all requirements and regulations. We have capabilities in thermal, static structural and vibration and magnetostatic simulation

Contact us for more information on how Littelfuse can help you build your custom HV PDU at littelfuse.com/HV-PDU

