

Delphi Hybrid Vehicle Battery Pack Systems

Delphi's Hybrid Vehicle Battery Pack Systems are designed to meet specific customer design requirements for single or multiple-element battery cells. The systems monitor and control high-voltage contactors within in the bussed electrical center to maintain occupant safety and calculate battery state-of-charge (SOC) and available power to the vehicle's energy system controller. These systems also maintain the health of the battery cells by monitoring the voltage, current, and temperature, and provide cooling and retention of the cells over the life of the vehicle.

▶ **Minimum Order Quantity**

- 5000

▶ **Benefits**

- Can be integrated with any Lithium ion or NiMH battery globally
- Provide a high degree of accuracy for SOC, temperature, current and voltage to extend battery life
- Reusable building block technologies help reduce cost
- Self contained system responsible for battery health and isolation during a collision

▶ **Features**

- Single or multiple battery configurations
- Voltages ranging from 42-450VDC, or higher
- Applicable to mild hybrids, full hybrids or electric vehicles
- CAN communications
- Functions supported include:
 - Store electrical energy
 - Provide electrical energy
 - Provide diagnostics and status
 - Source and sense high voltage (HV) interlock loop
 - Control HV contactors
 - Thermal management
 - HV isolation fault detection



Multiple Cell 320 VDC Battery Pack System