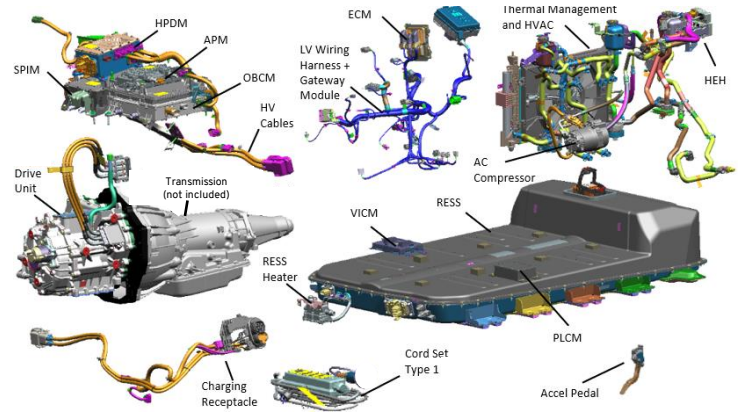


EV CONTROL MODULES¹

THE KEY TO COMMUNICATION

EV propulsion is more than just a high voltage battery and drive motor. From the accelerator pedal, to power distribution, to battery management and cooling, GM designed control modules help ensure every component communicates and functions accurately within the EV propulsion system. GM also offers cabin-comfort options like heater core modules and air conditioning accessories for a complete EV propulsion solution.



HPDM - High Power Distribution Module

Operates like a junction box to distribute High voltage (HV) DC power among HV components in the propulsion system. Two different types of HPDM are offered: One for Level 1 & 2 low power charging, and one for Level 3 (DC Fast charge).



SPIM - Single Power Inverter Module

Adjusts motor power according to the driver's accelerator pedal inputs by converting high voltage DC power from the HPDM, fed by HV battery, into 3-phase AC power during traction and vice-versa during re-gen. It also controls the auxiliary transmission fluid pump.



APM - Accessory Power Module

Converts 360V DC power from the HPDM, fed by the HV battery or OBCM, into 12V DC to power vehicle accessories and systems.



VICM - Vehicle Integration Control Module

Controls the charging and energy storage systems along with determining when to perform normal operating modes and regenerative braking.



OBCM - On Board Charging Module

Converts 110V~240V AC power from a building's wall receptacle into 360V HV DC power to charge the HV battery during low-power charging mode.



HVD - High Voltage Disconnect

A manual device that disconnects the High Voltage circuit in the propulsion system.



HVRH - High Voltage RESS Heater

Heats the coolant entering the RESS system when needed.



HEH - High Voltage Electric Heater Module

Heats coolant entering the vehicle's heater core to provide heat to the passenger cabin.



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¹Primary modules shown, additional units may be required
Simulated images shown
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