ELECTRIC MILITARY CONCEPT VEHICLE (eMCV)

Demonstrating a Path to a More Electric Future

GM DEFENSE

GM Defense's Electric Military Concept Vehicle (eMCV) is based on the GMC HUMMER EV Pickup and features General Motors' (GM) electric vehicle (EV) propulsion architecture, the Ultium Platform, which delivers power, range and scale beyond any previous GM hybrid or extended range EV technology. The Ultium Platform is flexible and adaptable with the capability to use various form factors and chemistries to meet changing needs. The vehicle demonstrates GM Defense's ability to leverage advanced commercial technologies to help global defense and government customers transition to a more electric, autonomous and connected future. This is a technology and concept development vehicle that directly informs our ongoing Series Hybrid Light Tactical Wheeled Vehicle development.

The six-passenger eMCV enables Silent Watch and Silent Drive, enhancing capabilities with low acoustic and thermal signature, and offers substantial exportable power for mission critical equipment and dash speed through instantaneous high-end torque. The vehicle also has the robust off-road capabilities of GM's commercial all-electric super truck with additional enhancements, including FOX performance shocks, 37-inch tires, heavy duty brakes and improved approach and departure angles for exceptional off-road mobility. The vehicle features a 46-inch gun ring, swing side-arm mounts and an on-board 12 kW diesel-powered generator, which can produce electric power to recharge the EV batteries.

PERFORMANCE & TECHNOLOGY

- 24-module, double-stacked (200+ kWh) Ultium battery pack
- Three-motor e4WD propulsion system.
- Dual motor rear drive unit design with virtual locking capability; front single motor with locking differential
- 1,000 hp and 11,500 lb-ft of torque (15,591 Nm) (GM estimate)
- Provides energy for GM-estimated Final Combined Driving Range of more than 300 miles (529 km)
- Onboard 12 kW diesel-powered generator, providing limited charging and propulsion

EXTERNAL CHARGING

- Charge approximately 100 miles (160 km) in approximately 12 minutes
- 800V DC fast charging capable, up to 350 kW