Electric Drive and Advanced Battery and Components Testbed (EDAB)

March 5 2012 - Feb 25 2013

Description / Specification

Vehicle
  Configuration: Series PHEV
  Traction Motor: UQM 145 kW / single-speed gearbox
  APU: UQM 145 kW / 5.3L gasoline engine

Battery Pack
  Manufacturer: EnerDel
  Model: Type 1 EV Pack (A306)
  Chemistry: Li-ion
  Cathode: Mixed Oxide (Modified NMC)
  Anode: Amorphous Hard Carbon
  Configuration: 4 parallel strings of 96 cells
  Rated Capacity (Ah): 70
  Nominal Voltage (V): 345
  Pack mass (kg): 285
  Cooling Type: Passive (sealed enclosure)

ESS Reference Performance Testing Results
  Initial Measured Capacity (BOL) (Ah): 63.2
  Present Measured Capacity (Ah): 54.0

ESS On-road Testing Results
  Miles driven: 12,021.5
  City % of miles: 52%
  Hwy % of miles: 48%
  Amp Hours throughput lifetime: 21,281.1
  Avg. energy consumption (DC Wh/mi): 240.5