Electric Drive and Advanced Battery and Components Testbed (EDAB)

March 5 2012 through April 29 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 I 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): 53.4

ESS On-road Testing Results
Miles driven: 16,440.1
City % of miles: 53%
Hwy % of miles: 47%
Amp Hours throughput lifetime: 28,623.1
Avg. energy consumption (DC Wh/mi): 242.2