

Electric Drive and Advanced Battery and Components Testbed (EDAB)

March 5, 2012 through July 25, 2013

Description / Specification

Vehicle

Configuration Series PHEV

Traction Motor UQM 145 kW / single-speed gearbox APU

UQM 145 kW / 5.3L gasoline engine



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) 345 285 Pack mass (kg)

Cooling Type Passive (sealed enclosure)

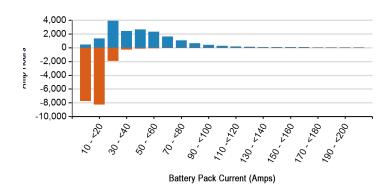
ESS Reference Performance Testing Results

Initial Measured Capacity (BOL) (Ah)	63.2
Present Measured Capacity (Ah)	51.1

ESS On-road Testing Results

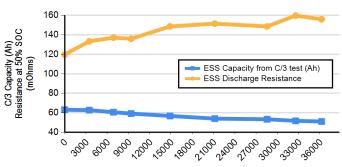
Miles driven	21,462.2
City % of miles	54%
Hwy % of miles	46%
Amp Hours throughput lifetime	36,249.8
Avg. energy consumption (DC Wh/mi)	236.4

Lifetime Ah throughput On-road



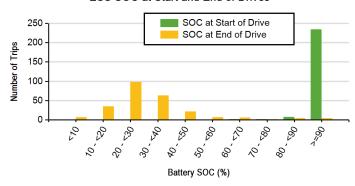


ESS Capacity and Resistance from RPT



Amp Hour Throughput On-Road (Ah)

ESS SOC at Start and End of Drives



Lifetime Ah throughput On-road

