

# **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



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)

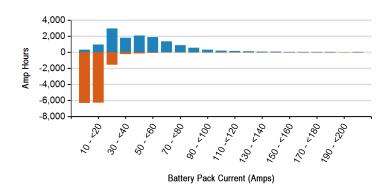
## **ESS Reference Performance Testing Results**

Initial Measured Capacity (BOL) (Ah)	63.2
Present Measured Capacity (Ah)	53.4

### **ESS On-road Testing Results**

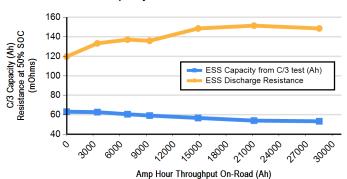
Miles driven	16,440.1
City % of miles	53%
Hwy % of miles	47%
Amp Hours throughput lifetime	28,623.1
Avg. energy consumption (DC Wh/mi)	242.2

## Lifetime Ah throughput On-road

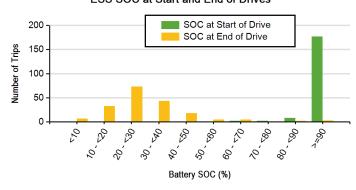




ESS Capacity and Resistance from RPT



ESS SOC at Start and End of Drives



#### Lifetime Ah throughput On-road

