

Electric Vehicle Supply Equipment (EVSE) Test Report: Delta Smart Grid Capable EVSE

EVSE Features

LED Power Indicator
LED Fault Indicator
Zigbee Wireless Modem

LED Charge Indicator
HEMS User App

EVSE Tested

Delta Smart Grid EVSE
AC Level 2
Model No. unknown

EVSE Specifications

Grid connection	Single NEMA 14-50P Cordset
Connector type	J1772
Approximate size (H x W x D inches)	12 x 10 x 5
Charge level	AC Level 2
Input voltage	208 / 240 VAC
Maximum input current	32 Amp
Circuit breaker rating	40 Amp

Test Conditions¹

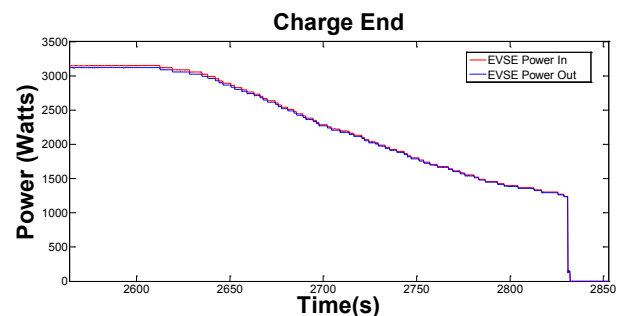
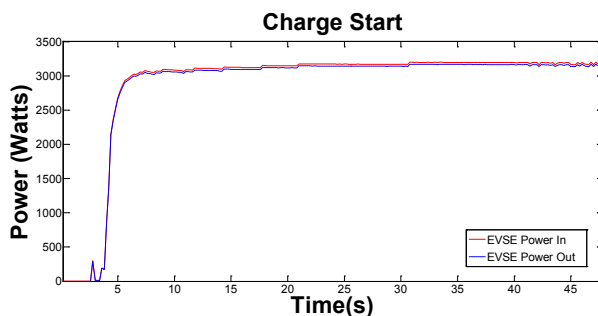
Test date	1/6/2015
Nominal supply voltage (Vrms)	209.8
Supply frequency (Hz)	60.00
Initial ambient temperature (°F)	70

Test Vehicle^{1,3}

Make and model	2012 Chevrolet Volt
Battery type	Li-ion
Steady state charge power (AC kW)	3.16
Maximum charge power (AC kW)	3.28

EVSE Test Results^{1, 2, 4}

EVSE consumption prior to charge (AC W)	4.1
EVSE consumption during steady state charge (AC W)	30.2
EVSE consumption post charge (AC W)	4.1
Efficiency during steady state charge	99.04%



NOTE: Charge start and charge end power demand curves are dependent upon the vehicle

- Hioki 3390 Power Meter used for all current and voltage measurements
- Measurements were taken at EVSE grid connection and J1772 connection
- Steady state charge power is the most common power level dictated by the vehicle during the charge
- Steady state charge refers to the portion of the charge when power was greater than or equal to steady state charge power