

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

EVSE Features

LED Charge Indicator
Cellular Modem

User App

EVSE Tested

Eaton Smart Grid EVSE
AC Level 2
Model No. unknown

EVSE Specifications

Grid connection: Dual NEMA 14-50P Cordsets
Connector type: J1772
Approximate size (H x W x D inches): 16 x 24 x 6
Charge level: AC Level 2
Input voltage: 208 / 240 VAC
Maximum input current: 32 Amp
Circuit breaker rating: 40 Amp

Test Conditions¹

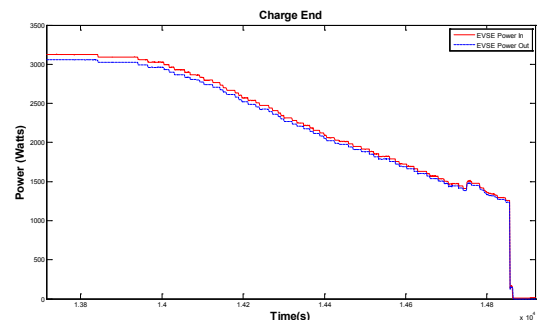
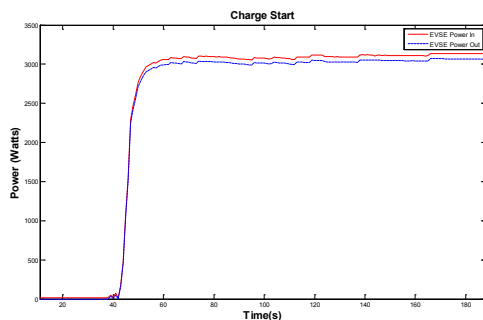
Test date: 9/9/2014
Nominal supply voltage (Vrms): 208.6
Supply frequency (Hz): 60.00
Initial ambient temperature (°F): 70

Test Vehicle^{1,3}

Make and model: 2012 Chevrolet Volt
Battery type: Li-ion
Steady state charge power (AC kW): 3.13
Maximum charge power (AC kW): 3.26

EVSE Test Results^{1, 2, 4}

EVSE consumption prior to charge (AC W): 14.4
EVSE consumption during steady state charge (AC W): 68.8
EVSE consumption post charge (AC W): 12.5
Efficiency during steady state charge: 97.8%



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