

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

EVSE Features

LED Charge Indicator Cellular Modem

EVSE Specifications

Grid connection Dual NEMA 6-50P 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

EVSE Tested

GE Smart Grid EVSE
 AC Level 2
 Model No. prototype

Test Conditions¹

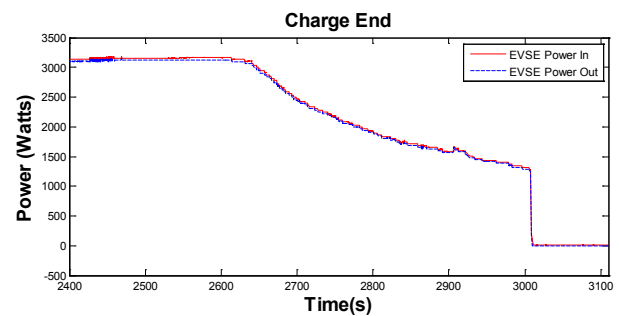
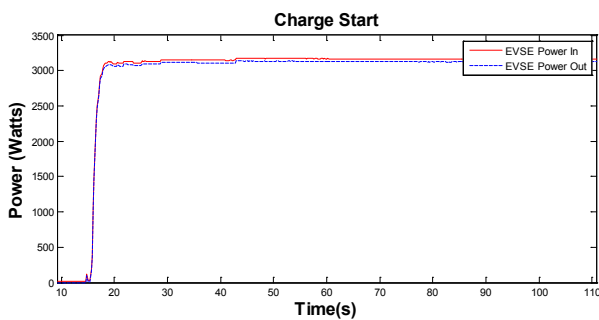
Test date 12/5/2013
 Nominal supply voltage (Vrms) 208.6
 Supply frequency (Hz) 60.00
 Initial ambient temperature (°F) 8

Test Vehicle^{1,3}

Make and model 2012 Chevrolet Volt
 Battery type Li-ion
 Steady state charge power (AC kW) 3.15
 Maximum charge power (AC kW) 3.26

EVSE Test Results^{1, 2, 4}

EVSE consumption prior to charge (AC W) 18.4
 EVSE consumption during steady state charge (AC W) 36.8
 EVSE consumption post charge (AC W) 17.7
 Efficiency during steady state charge 98.83%



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

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