Electric Vehicle Supply Equipment (EVSE) Test Report: AeroVironment

EVSE Features
LED status light

EVSE Specifications
Grid connection    Hardwired
Connector type    J1772
Test lab certifications   UL, cUL, CE, CTick listed
Approximate size (H x W x D inches)  12 x 12 x 8
Charge level    AC Level 2
Input voltage    208VAC to 240 VAC
Maximum input current   30 Amp
Circuit breaker rating   40 Amp

Test Conditions¹
Test date     1/31/2012
Nominal supply voltage (Vrms)  235.68
Supply frequency (Hz)   60.00
Initial ambient temperature (°F)  58

Test Vehicle¹,³
Make and model  2011 Chevrolet Volt
Battery type    Li-ion
Steady state charge power (AC kW)  3.34
Maximum charge power (AC kW)  3.39

EVSE Test Results¹,²,⁴
EVSE consumption prior to charge (AC W)  5.11
EVSE consumption during steady state charge (AC W)  22.77
EVSE consumption post charge (AC W)  5.0
Efficiency during steady state charge  99.33%

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