Specifications

Grid connection    Hardwired
Connector type    CHAdeMo
Approximate size (H x W x D inches)  38 x 69 x 21
Charge level    DC Fast Charge
Input voltage    480 VAC - 3 Phase
Isolation Transformer¹    75 kVA
Maximum input current²    120 Amp

Test Conditions

Test date     10/23/2012
Supply frequency (Hz)   60
Initial ambient temperature (°F)  85

Vehicle Charged

Make and model    2011 Nissan Leaf
Battery type    Li-ion
Initial Leaf ESS State of Charge³  9%
Final Leaf ESS State of Charge³  86%

DCFC Test Results³, 4

Peak Power draw from Grid (AC kW)  53.1
Energy from grid (AC kWh)    15.0
Peak Charge Power to Leaf ESS (DC kW)  47.1
Energy delivered to Leaf ESS (DC kWh)  13.3
Charge time (min:sec)   31:40
Overall Charge Efficiency (480VAC to ESS DC)  88.7%

1. HPS Sentinel dry type Isolation Transformer
2. Manufacture specification = 125A max; this installation is configured to 120A max due to supply restrictions
3. Vehicle CAN message data acquisition and Hasetec DC output watthour meter used for DC measurements
4. Square D WattHour meter used for 480VAC energy measurement on feed to transformer