

Production EVSE Fact Sheet: DC Fast Charger: Hasetec

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 Transformer ¹	75 kVA
Maximum input current ²	120 Amp

Test Conditions

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

Vehicle Charged

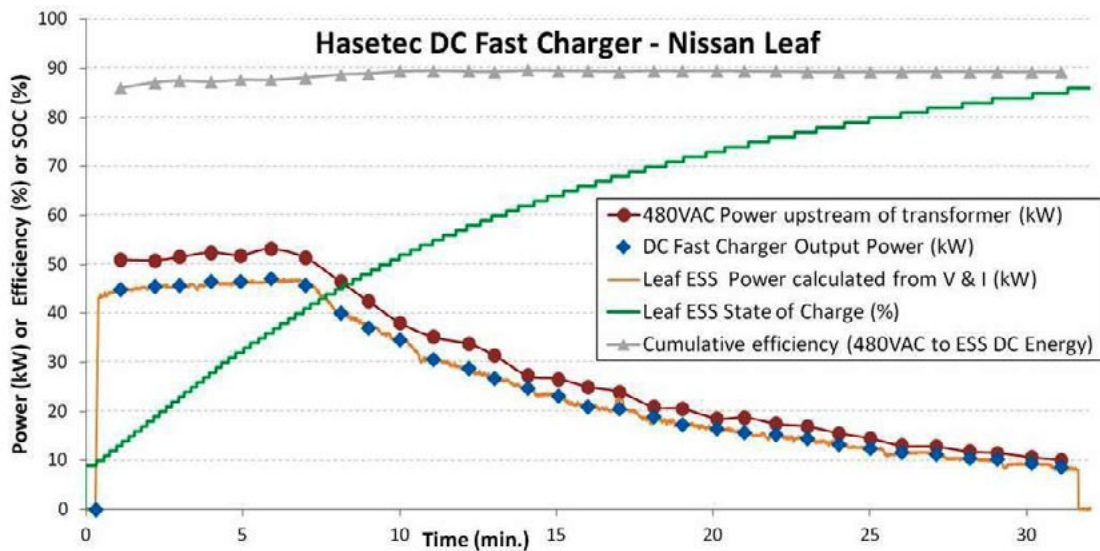
Make and model	2011 Nissan Leaf
Battery type	Li-ion
Initial Leaf ESS State of Charge ³	9%
Final Leaf ESS State of Charge ³	86%

DCFC Test Results^{3, 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%

DC Fast Charger Tested

Hasetec LI06-3P3W 50KW



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 watt-hour meter used for DC measurements
4. Square D WattHour meter used for 480VAC energy measurement on feed to transformer