

# 2013 Ford CMax Energi

## Battery Charge Profiles at Different Temperatures



### Summary

The 2013 Ford CMax Energi's battery was charged with a level 2 EVSE charger from charge sustaining mode at 72°F, and 20°F. For both temperatures, the charger consumes constant power until the last 15 minutes when power gradually tapers down.

### Select Battery Specifications<sup>1</sup>

Manufacturer:	Panasonic
Type:	Lithium-Ion (NMC)
Nominal System Voltage:	310.8 V
Rated Pack Energy:	7.6 kWh
Cooling:	Forced cabin air

### Key Charging Experiment Results<sup>2</sup>

	Peak Power (kW)	Energy Consumed (kWh)
Charge at 72°F	3.82	7.02
Charge at 20°F	3.50	7.33

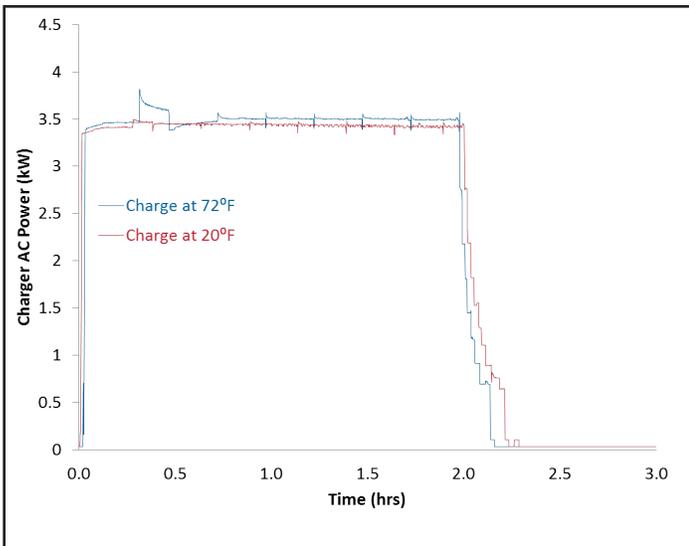


Fig. 1 Ford CMax Energi charger power consumption during charge

- Notes:
1. Vehicle specifications were supplied by the manufacturer, measured, or derived from a literature review. For detailed specifications, see Baseline Testing Results available at [avt.inl.gov](http://avt.inl.gov)
  2. The experiments were conducted at Argonne National Laboratory (ANL) for the Advanced Vehicle Testing Activity (AVTA)

As a production vehicle, this vehicle is assumed to meet all Federal Motor Vehicle Safety Standards (FMVSS) for Battery Electric Vehicles.

This information was prepared with the support of the U.S. Department of Energy (DOE) under Award No. DE-EE0005501. However, any opinions, findings, conclusions or recommendations expressed herein are those of the author(s) and do not necessarily reflect the views of the DOE.