

# 2013 Toyota Prius Plug-In

### **Battery Charge Profiles at Different Temperatures**

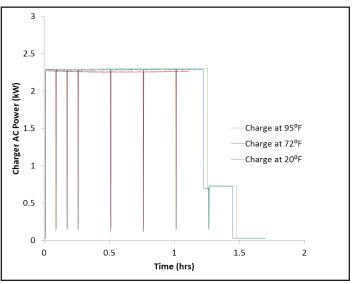


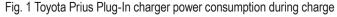
## Summary<sup>2</sup>

The 2013 Toyota Prius Plug-In's battery was charged from charge sustaining mode at 95<sup>0</sup>F, 72<sup>0</sup>F, and 20<sup>0</sup>F. For all temperatures<sup>3</sup>, the charger consumes constant power with regular interruptions until the battery approaches fully charged and a smaller constant power is drawn to finish charging. The peak power in 20<sup>0</sup>F is slightly lower thatn in higher temperatures.

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

Manufacturer:Panasonic EV EnergtyType:Lithium-IonNominal System Voltage:207.2 VRated Pack Energy:4.4 kWhCooling:Fan Cooled





#### 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
- 2. The experiments were conducted at Argonne National Laboratory (ANL) for the Advanced Vehicle Testing Activitiy (AVTA)

3. The charge at 20°F was interrupted before its completion

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

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### Key Charging Experiment Results

	Peak Power (kW)	Energy Consumed (kWh)
Charge at 95°F	2.30	2.99
Charge at 72 <sup>0</sup> F	2.30	2.90
Charge at 20 <sup>0</sup> F	2.27	2.47 <sup>3</sup>