

2013 Toyota Prius Plug-In

Battery Charge Profiles at Different Temperatures

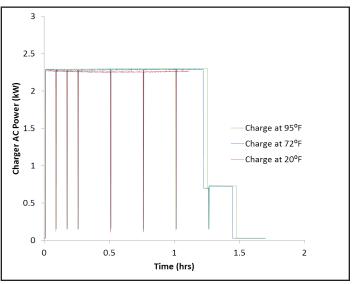


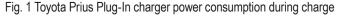
Summary²

The 2013 Toyota Prius Plug-In's battery was charged from charge sustaining mode at 95⁰F, 72⁰F, and 20⁰F. For all temperatures³, 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 20⁰F is slightly lower thatn in higher temperatures.

Select Battery Specifications¹

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 ⁰ F	2.30	2.90
Charge at 20 ⁰ F	2.27	2.47 ³