**VEHICLE SPECIFICATIONS**

**VEHICLE FEATURES**
- Base Vehicle: 2003 Honda Civic
- VIN: JHME69663035000815
- Seatbelt Positions: Five
- Standard Features:
  - CARB Certified as a ULEV
  - AM/FM Stereo Cassette
  - Front Wheel Drive
  - CVT Transmission
  - Front Disc/Rear Drum Brakes
  - Regenerative Braking
  - Air Bags
  - Anti-lock Brakes
  - Power Windows
  - Power Locks/Keyless Entry
  - Keyless Entry
  - Air Conditioning
  - Heater/Windshield Defroster
  - Rear Window Defroster
  - State-Of-Charge Meter
  - Low Rolling Resistance Tires

**BATTERY**
- Manufacturer: Panasonic EV Energy
- Type: Nickel Metal Hydride (NiMH)
- Number of Cells: 120 Cylindrical
- Cell Weight: 0.183 kg
- Weight of Pack(s): 22 kg
- Pack(s) Location: Rear
- Nominal Cell Voltage: 1.2 VDC
- Nominal System Voltage: 144 VDC
- Nominal Pack Capacity (C/2): 6.0 Ah
- Electric Motor: 10 kW

**WEIGHTS**
- Design Curb Weight: 2732 lbs
- Delivered Curb Weight: 2717 lbs
- Distribution F/R: 58/42 %
- GVWR: 3620 lbs
- GAWR F/R: 1855/1845 lbs
- Payload: 882 lbs
- Performance Goal: 400 lbs

**DIMENSIONS**
- Wheelbase: 103.1 inches
- Track F/R: 57.9/57.9 inches
- Length: 174.8 inches
- Width: 67.5 inches
- Height: 55.6 inches
- Ground Clearance: 4.7 inches
- Performance Goal: 5.0 inches

**TIRES**
- Tire Mfg: Dunlop
- Tire Model: SP20 FE
- Tire Size: 185/70R14
- Tire Pressure F/R: 30/30 psi
- Spare Installed: Yes

**ENGINE**
- Model: VTEC-E
- Output: 70 kW @ 5700 rpm
- Configuration: In-Line 4-Cylinder
- Displacement: 1.4 L
- Fuel Tank Capacity: 13.2 Gallons
- Fuel Type: Unleaded Gasoline

**PERFORMANCE STATISTICS**

**Acceleration 0-50 mph**
- At 100% SOC: 11.7 seconds
- At 50% SOC: N/A
- Performance Goal: 13.5 seconds

**Maximum Speed**
- At 1/4 Mile: 68.0 mph
- In 1 Mile: 93.7 mph
- Performance goal: 70 mph in one mile

**Driving Cycle Range w/o Accessories**
- Average Electric Power: 0.80 kW
- Cycle Fuel Economy: 48.8 mpg
- Driving Range: 644 miles

**Driving Cycle Range w/Accessories**
- Average Electric Power: 1.35 kW
- Cycle Fuel Economy: 35.6 mpg
- Driving Range: 470 miles

**Braking From 60 mph**
- Controlled Dry: 158.4 feet
- Controlled Wet: 154.7 feet
- Panic Wet: 160.6 feet

**Handling**
- Average Time: 56.7 seconds
- Average Dodge Neon Time: 54.6 seconds

**Gradeability (Calculated)**
- Maximum Speed @ 3%: 88.4 mph
- Maximum Speed @ 6%: 72.4 mph
- Maximum Grade: 37.4%

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**TEST NOTES:**
1. Energy transfer display
2. Vehicle not equipped with a battery only mode
3. Average battery discharge over SAE J1634 drive cycle
4. Value calculated based on fuel economy and fuel tank size
5. Air Conditioning on maximum with full blower

This vehicle meets all HEV America Minimum Requirements listed on back of this sheet.

Values in red indicate the Performance Goal was not met. All Power and Energy Values are DC unless otherwise specified.

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This vehicle meets the following HEValicture minimum requirements:

1. Vehicles shall comply with Federal Motor Vehicle Safety Standards applicable on the date of manufacture and such compliance shall be certified by the manufacturer in accordance with 49 CFR 567. Suppliers shall provide a completed copy of Appendix A and Appendix B with their proposal, providing vehicle specifications and the method of compliance with each required section of 49 CFR 571. If certification includes exemption, the exemption section of 49 CFR 571, Federal Highway Transportation Safety Administration (NHTSA), the date of it’s publication in the Federal Register and the page number(s) of the Federal Register acknowledging issuance of the exemption shall be provided along with Appendix B. Exemptions for any reason other than non-applicability shall not be allowed.

2. Suppliers shall supply Material Safety Data Sheets (MSDS) for all unique hazardous materials the vehicle is equipped with, including RESS batteries or capacitors, and auxiliary batteries.

3. Suppliers shall provide recycling plans for batteries and other vehicle hazardous materials including how the plans have been implemented.

4. All vehicles shall comply with the FCC requirements for unintentional emitted electromagnetic radiation, as identified in 47 CFR 15, Subpart B, “Unintentional Radiators.”

5. Vehicles shall have a minimum payload of at least 400 pounds.

6. For conversions, OVM GWR shall not be increased. For conversion vehicles, Suppliers shall specify the OVM gross vehicle weight rating (GVWR).

7. For conversions, OVM Gross Vehicle Axle Weight Ratings (GAWR) shall not be increased. Suppliers shall provide axled weights for the vehicle as delivered, and at full rated payload.

8. Tires shall be subject to the following requirements:
   - Tires provided with the vehicle shall be the standard tire offered by the HEV Supplier for the vehicle being proposed.
   - Tires shall correspond to the requirements of the placard installed in accordance with 49 CFR 571.109, 110, 119 and 120, as applicable.
   - Suppliers shall specify manufacturer, model and size of the standard tire.
   - Tires sizes and inflation pressures shall be in accordance with the requirements of the placard.
   - At no time shall the tire’s inflation pressure exceed the maximum pressure imprinted upon that tire’s sidewall.
   - The tire shall be operable across the entire operation/load range of that vehicle.
   - Replacement tires shall be commercially available to the end user in sufficient quantities to support the purchaser’s needs.
   - Tires provided as original equipment by the HEV manufacturer shall not have warranty restrictions in excess of those of the tire’s manufacturer, unless the Supplier is the sole warrantor for the tires.

9. Seating capacity shall be a minimum of 1 driver and 1 passenger. Suppliers shall specify seating capacity (available seat belt positions) for their vehicle. For conversion vehicles, if the vehicle’s seating capacity is changed from that specified by the OEM on their FMVSS placard, the seat(s) being added or abandoned shall be modified as required by 49 CFR 571.207, et al., and a new FMVSS placard installed as required by 49 CFR 567, 568 or 571, as applicable.

10. For vehicles using fuels other than gasoline, manufacturers shall indicate compliance with appropriate and applicable standards from SAE, NFPA, etc. [e.g., for vehicles using Compressed Natural Gas as fuel, manufacturers should indicate compliance with NFPA 52, “Compressed Natural Gas (CNG) Vehicular Fuel Systems Code,” as well as 49 CFR 571.303 and 304.]

11. Rechargeable Energy Storage Systems (RESS) shall be battery, capacitor, or electromechanical flywheel technology-based as defined in SAE J1711.

12. Vehicles shall not contain exposed conductors, terminals, contact blocks or devices of any type that create the potential for personnel to be exposed to 60 volts or greater (the distinction between low voltage and high voltage, as specified in SAE J1127, J1128, et al.). Access to any high voltage components shall require the removal of at least one bolt, screw, or latch. Devices considered to be high voltage components shall be clearly marked as HIGH VOLTAGE. These markings should be installed at any point the voltage can be accessed by the end user. Additionally, cable and wire marking shall consist of wire orange and/or orange sleeving as identified in SAE-J1127.

13. For propulsion power systems with voltages greater than or equal to 48VDC, the system shall be isolated from the vehicle chassis such that leakage current does not exceed 0.5 MIU. Charging battery systems with voltages greater than or equal to 48VDC shall be isolated from the vehicle chassis such that ground current from the grounded chassis does not exceed 5 mA at any time the vehicle is connected to an off-board power supply.

14. Concentrations of explosive gases in the battery box shall not be allowed to exceed 25% of the LEL (Lower Explosive Limit). Suppliers shall describe how battery boxes will be vented.

15. The vehicle shall be prevented from being driven with the key turned on and the drive selector in the drive or reverse position while the vehicle’s charge cord is attached. Additionally, the start key shall be removable only when the “ignition switch” is in the “OFF” position, with the drive selector in “PARK;”

16. Batteries shall comply with the requirements of SAE J1718. and at a minimum shall meet the requirements of NEC 625-29© or (d) for charging in enclosed spaces without a vent fan. The vehicle shall be labeled as not requiring ventilation (or have the appropriate classification label from a UL-recognized Testing Laboratory).

17. Further, irrespective of RESS system voltage, batteries or capacitors, and electrolyte will not intrude into the passenger compartment during or following FMVSS frontal barrier, rear barrier and side impact collisions, and rollover requirements of 49 CFR 571.301. Suppliers shall provide verification of conformance to this requirement.

18. Concentrations of explosive gases in the battery box shall not be allowed to exceed 25% of the LEL (Lower Explosive Limit). Suppliers shall provide detailed information on the equipment and charging algorithms required to prevent the parallel strings from becoming unbalanced.

19. Flywheels and their enclosures shall be designed and constructed such that there is complete containment of the flywheel energy storage system during all modes of operation. Additionally, Flywheels and their enclosures shall be designed and constructed such that there is complete containment of the flywheel energy storage system during or following frontal barrier, rear barrier and side impact collisions, and rollover requirements of 49 CFR 571.301. Suppliers shall provide verification of conformance to this requirement.

20. Suppliers shall provide a completed copy of Appendix A and Appendix B with their proposal, providing vehicle specifications and the method of compliance with each required section of 49 CFR 571. If certification includes exemption, the exemption number issued by the National Highway Transportation Safety Administration (NHTSA), the date of it’s publication in the Federal Register and the page number(s) of the Federal Register acknowledging issuance of the exemption shall be provided along with Appendix B. Exemptions for any reason other than non-applicability shall not be allowed.