



## PERFORMANCE STATISTICS

### ACCELERATION AT 90% SOC \*

Zero to 30 mph: 6.5 sec  
 Zero to 40 mph: 9.6 sec  
 Zero to 50 mph: 14.3 sec  
 Zero to 60 mph: 21.0 sec  
 Performance Goal: 13.5 seconds; 0 to 60 mph

### ACCELERATION AT 50% SOC \*

Zero to 30 mph: 7.0 sec  
 Zero to 40 mph: 10.6 sec  
 Zero to 50 mph: 16.2 sec  
 Zero to 60 mph: **24.9 sec**  
 Performance Goal: 13.5 seconds; 0 to 60 mph

### MAXIMUM SPEED

At 50% SOC: 81 mph  
 Performance Goal: 70 mph

### CONSTANT SPEED RANGE

45 mph Distance: 59.3 miles  
 45 mph Energy Used: 12.4 kWhr  
 45 mph Efficiency: 0.209 kWhr/mile  
 45 mph Specific Energy: 0.0108 kWhr/lb  
 60 mph Distance: 41.5 miles  
 60 mph Energy Used: 11.7 kWhr  
 60 mph Efficiency: 0.282 kWhr/mile  
 60 mph Specific Energy: 0.0102 kWhr/lb

### DRIVING CYCLE RANGE

77°F Distance: **45.90 miles**  
 77°F Energy Used: 11.93 kWhr  
 77°F Efficiency: 0.260 kWhr/mile  
 77°F Specific Energy: 0.0104 kWhr/lb  
 19°F Distance: **32.20 miles**  
 19°F Energy Used: 9.57 kWhr  
 19°F Efficiency: 0.296 kWhr/mile  
 19°F Specific Energy: 0.0083 kWhr/lb

Performance Goal: 60 miles

### GRADEABILITY\*

Maximum Grade: **23%**  
 Performance Goal: 25%

Speed At 3% Grade: 66 mph  
 Performance Goal: 55 mph

Speed At 6% Grade: 53 mph  
 Performance Goal: 45 mph

### HANDLING COURSE

Avg Time @ 90% SOC: 55.0 sec  
 Avg Time @ 50% SOC: 55.0 sec  
 Avg Time @ 20% SOC: 57.6 sec  
 Avg Dodge Neon (ICE) Time: 54.62 sec  
 Average Chevrolet S-10 Time: 58.29 sec

### BRAKING STABILITY

Controlability: No Stability Problems  
 Distance Dry/Wet: 157.6/203.9 feet

### CHARGER

Ground Current During Charge: <0.01 mA  
 Battery Leakage Current: <0.01 mA  
 Charger Efficiency: 95.8%  
 Average Power Factor: **0.937**  
 Performance Goal: 0.95  
 Average THD: **15.5%**  
 Performance Goal: 5%  
 Time From 80% DOD: **8 hours 12 minutes**  
 Performance Goal: <8 hours

### VEHICLE TYPE

Conversion Of: Geo Prizm  
 VIN: 1YSK5304RZ092279  
 Seating Capacity: 4 Adults

Features: AM/FM Radio,  
 Power Steering, Power  
 Brakes, Front Wheel Drive  
 & Front Disc Brakes

### DIMENSIONS

Wheelbase: 96.8 inches  
 Track F/R: 57.5/56.7 inches  
 Length: 173.1 inches  
 Width: 66.6 inches  
 Height: 55.2 inches  
 Ground Clearance: >50 mm  
 Cargo Space: No Intrusion  
 on OEM Space

### WEIGHT

Curb Weight: 3420 lbs  
 Test Weight: 3445 lbs  
 Distribution F/R: 55/45 %  
 Conversion GVWR: 4060 lbs  
 OEM GVWR: 3510 lbs  
 Payload: **615 lbs**

### WHEELS & TIRES

Wheel Size: 14 inches  
 Tire Mfg: Firestone  
 Tire Size: P185/765R14  
 Tire Pressure F/R: 35/35 psi  
 Spare Installed: No

### DRIVE SYSTEM

Drive Type: 50 kW AC Induction  
 Motor Mfg: Hughes  
 Controller Mfg: Hughes  
 Transmission: Single Speed

### BATTERY

Manufacturer: Hawker Energy  
 Type: G12V26Ah10C Sealed Lead Acid  
 Number of Modules: 50  
 Total Traction Voltage: 300 volts  
 Battery Pack Weight: 1150 lbs  
 Locations In Vehicle: Below The  
 Passenger Compartment

### CHARGER

Location: Under Hood  
 Input Voltage(s): 110/220 volts AC  
 Input Current(s): 15/30 amperes AC

### INTERLOCKS

Key Removable When Off Only: Yes  
 Key Off In Park Only: **No**  
 Start In Park Only: **No**  
 Start Blocked By Accelerator: Yes  
 Start Blocked On Charge: Yes

### REQUIREMENTS

Manual Disconnect Present & Operational: Yes  
 Batteries Sealed or Valve Regulated: Yes  
 Charger Automatic Control: Yes  
 SOC Indicator: Yes  
 Battery Voltage Indicator: **No**  
 Battery Current Indicator: **No**  
 Regenerative Current Indicator: **No**  
 Transmission Single Speed: Yes  
 Transmission Parking Pawl: Yes  
 No Open Access to High Voltage: Yes  
 All High Voltage Clearly Marked: **No**  
 Control Efforts Similar To OEM: Yes

Test Date: October 1994

### Notes:

**Bold** - Results did not meet EV America  
 Performance Goal  
 \* - Tested at gross vehicle weight

### TEST EXCEPTIONS

Payload 85 lbs less than required  
 Requires offboard transformer for charging  
 Charger/Controller GFI trips inadvertently  
 OEM GVWR re-certified by converter  
 Charge Complete Indicator lights prematurely

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