



**DODGE CARAVAN**

## PERFORMANCE STATISTICS

### ACCELERATION AT 90% SOC

Zero to 30 mph: 11.1 sec  
 Zero to 40 mph: 19.9 sec  
 Zero to 50 mph: 30.7 sec  
 Zero to 60 mph: **70.0 sec**  
 Performance Goal: 13.5 seconds; 0 to 60 m

### ACCELERATION AT 50% SOC

Zero to 30 mph: 12.9 sec  
 Zero to 40 mph: 20.8 sec  
 Zero to 50 mph: 33.9 sec  
 Zero to 60 mph: **80.0 sec**  
 Performance Goal: 13.5 seconds; 0 to 60 m

### MAXIMUM SPEED

At 50% SOC: **62 mph**  
 Performance Goal: 70 mph

### CONSTANT SPEED RANGE

45 mph Distance: 86.4 miles  
 45 mph Energy Used: 27.4 kWhr  
 45 mph Efficiency: 0.317 kWhr/mile  
 45 mph Specific Energy: 0.0163 kWhr/lb  
 60 mph Distance: 57.0 miles  
 60 mph Energy Used: 23.78 kWhr  
 60 mph Efficiency: 0.417 kWhr/mile  
 60 mph Specific Energy: 0.0141 kWhr/lb

### DRIVING CYCLE RANGE

77°F Distance: **51.40 miles**  
 77°F Energy Used: 21.88 kWhr  
 77°F Efficiency: 0.426 kWhr/mile  
 77°F Specific Energy: 0.0130 kWhr/lb  
 19°F Distance: **48.60 miles**  
 19°F Energy Used: 21.89 kWhr  
 19°F Efficiency: 0.450 kWhr/mile  
 19°F Specific Energy: 0.0130 kWhr/lb  
 Performance Goal: 60 miles

### GRADEABILITY\*

Maximum Grade: **16%**  
 Performance Goal: 25%  
 Speed At 3% Grade: **48 mph**  
 Performance Goal: 55 mph  
 Speed At 6% Grade: **37 mph**  
 Performance Goal: 45 mph

### HANDLING COURSE

Avg Time @ 90% SOC: 66.0 sec  
 Avg Time @ 50% SOC: 63.9 sec  
 Avg Time @ 20% SOC: 118 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: 207.2/355.1 feet

### CHARGER

Ground Current During Charge: Not Meas

### VEHICLE TYPE

Conversion Of: Dodge Caravan  
 VIN: 2B4GH25945R100022  
 Seating Capacity: 5 Adults  
 Features: A/C, AM/FM Radio, Heater,  
 Power Steering, Power Brakes,  
 Front Wheel Drive & Front  
 Disc Brakes

### DIMENSIONS

Wheelbase: 112.4 inches  
 Track F/R: 60.5/62.3 inches  
 Length: 177.7 inches  
 Width: 72.7 inches  
 Height: 68.0 inches  
 Ground Clearance: >50 mm  
 Cargo Space: No Intrusion on  
 OEM Space

### WEIGHT

Curb Weight: 5150 lbs  
 Test Weight: 5138 lbs  
 Distribution F/R: 50/50 %  
 Conversion GVWR: 5950 lbs  
 OEM GVWR: 5950 lbs  
 Payload: 812 lbs

### WHEELS & TIRES

Wheel Size: 15 inches  
 Tire Mfg: Goodyear Momentum  
 Tire Size: P205/75R15  
 Tire Pressure F/R: 50/50 psi  
 Spare Installed: Yes

### DRIVE SYSTEM

Drive Type: 54 kW Brush DC  
 Motor Mfg: General Electric  
 Controller Mfg: General Electric  
 Transmission: **2 Speed Manual**

### BATTERY

Manufacturer: Eagle-Picher  
 Type: NIF - 200 - 5 Nickel Iron  
 Number of Modules: 30  
 Total Traction Voltage: 180 volts  
 Battery Pack Weight: 1685 lbs  
 Locations In Vehicle: Beneath Vehicle

### CHARGER

Location: Under Hood  
 Input Voltage(s): **208/240 volts AC**  
 Input Current(s): 40 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: No  
 Batteries Sealed or Valve Regulated: No  
 Charger Automatic Control: Yes  
 SOC Indicator: Yes  
 Battery Voltage Indicator: No  
 Battery Current Indicator: No  
 Regenerative Current Indicator: No  
 Transmission Single Speed: No  
 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

*No 110 volt charging  
 Charger replaced*