



U. S. ELECTRICAR PICKUP

PERFORMANCE STATISTICS

ACCELERATION AT 90% SOC *

Zero to 30 mph: 7.9 sec
 Zero to 40 mph: 12.2 sec
 Zero to 50 mph: **18.7 sec**
 Performance Goal: 13.5 seconds; 0 to 50 mph

ACCELERATION AT 50% SOC *

Zero to 30 mph: 8.2 sec
 Zero to 40 mph: 12.8 sec
 Zero to 50 mph: **20.1 sec**
 Performance Goal: 13.5 seconds; 0 to 50 mph

MAXIMUM SPEED

At 50% SOC: 71 mph
 Performance Goal: 70 mph

CONSTANT SPEED RANGE

45 mph Distance: 70.7 miles
 45 mph Energy Used: 20.9 kWhr
 45 mph Efficiency: 0.296 kWhr/mile
 45 mph Specific Energy: 0.0115 kWhr/lb
 60 mph Distance: 47.3 miles
 60 mph Energy Used: 19.1 kWhr
 60 mph Efficiency: 0.404 kWhr/mile
 60 mph Specific Energy: 0.0105 kWhr/lb

DRIVING CYCLE RANGE

77°F Distance: 68.8 miles
 77°F Energy Used: 20.90 kWhr
 77°F Efficiency: 0.304 kWhr/mile
 77°F Specific Energy: 0.0115 kWhr/lb
 19°F Distance: **55.24 miles**
 19°F Energy Used: 18.90 kWhr
 19°F Efficiency: 0.342 kWhr/mile
 19°F Specific Energy: 0.0104 kWhr/lb
 Performance Goal: 60 miles

GRADEABILITY*

Maximum Grade: **19%**
 Performance Goal: 25%
 Speed At 3% Grade: 59 mph
 Performance Goal: 55 mph
 Speed At 6% Grade: 45 mph
 Performance Goal: 45 mph

HANDLING COURSE

Avg Time @ 90% SOC: 59.8 sec
 Avg Time @ 50% SOC: 59.8 sec
 Avg Time @ 20% SOC: 60.8 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: 163.6/214.2 feet

CHARGER

Ground Current During Charge: <0.01 mA
 Battery Leakage Current: 1.2 mA
 Charger Efficiency: 95.2%
 Average Power Factor: **0.893**
 Performance Goal: 0.95
 Average THD: **19.5%**
 Performance Goal: 5%
 Time From 80% DOD: **15 hours 40 minutes**
 Performance Goal: <8 hours

VEHICLE TYPE

Conversion Of: Chevrolet S10
 VIN: 1GCCS1443R8203148
 Seating Capacity: 2 Adults
 Features: A/C, Power Steering
 AM/FM Stereo, Power Brakes,
 Battery Thermal Management,
 Anti-Lock Brakes & Heater

DIMENSIONS

Wheelbase: 117.4 inches
 Track F/R: 54.7/55.0 inches
 Length: 200.0 inches
 Width: 68.2 inches
 Height: 61.4 inches
 Ground Clearance: >50 mm
 Cargo Space: No Intrusion
 on OEM Space

WEIGHT

Curb Weight: 4730 lbs
 Test Weight: 4862 lbs
 Distribution F/R: 49/51 %
 Conversion GVWR: 5400 lbs
 OEM GVWR: 4600 lbs
 Payload: **538 lbs**

WHEELS & TIRES

Wheel Size: 15 inch
 Tire Mfg: Uniroyal
 Tire Size: P205/75R15
 Tire Pressure F/R: 35/35 psi
 Spare Installed: No

DRIVE SYSTEM

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

BATTERY

Manufacturer: Hawker Energy
 Type: G12V38Ah10C Sealed Lead Acid
 Number of Modules: 52
 Total Traction Voltage: 312 volts
 Battery Pack Weight: 1820 lbs
 Locations In Vehicle: Under Cab
 & Cargo Bed

CHARGER

Location: Under Hood
 Input Voltage(s): 110/220 volts AC
 Input Current(s): 50/30 amperes AC

INTERLOCKS

Key Removable When Off Only: Yes
 Key Off In Park Only: Yes
 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 112 lbs less than required
Requires offboard transformer for charging
Testing delayed by charge times > 8 hours
Charge Complete Indicator lights prematurely
Charger/Controller GFI trips inadvertently
OEM GVWR re-certified by converter
Driveline contact during hard cornering & rough road

EV AMERICA