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
Spares 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

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

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

DRIVING CYCLE RANGE
77°F Distance: 68.8 miles
77°F Energy Used: 20.90 kWh
77°F Efficiency: 0.304 kWh/mile
77°F Specific Energy: 0.0115 kWh/lb
19°F Distance: 55.24 miles
19°F Energy Used: 18.90 kWh
19°F Efficiency: 0.342 kWh/mile
19°F Specific Energy: 0.0104 kWh/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

TEST EXCEPTIONS
Payload 112 lbs less than required
Requires offboard transformer for charging
Testing delayed by charge times > 8 hours
Charging Complete Indicator lights prematurely
OEM GVWR re-certified by converter
Driveline contact during hard cornering & rough road

EVAmerica