



**SOLECTRIA E10 PICKUP**

## PERFORMANCE STATISTICS

### ACCELERATION AT 90% SOC \*

Zero to 30 mph: 7.0 sec  
 Zero to 40 mph: 11.5 sec  
 Zero to 50 mph: **18.8 sec**  
 Performance Goal: 13.5 seconds; 0 to 50 mph

### ACCELERATION AT 50% SOC \*

Zero to 30 mph: 7.1 sec  
 Zero to 40 mph: 12.2 sec  
 Zero to 50 mph: **21.7 sec**  
 Performance Goal: 13.5 seconds; 0 to 50 mph

### MAXIMUM SPEED

At 50% SOC: **66 mph**  
 Performance Goal: 70 mph

### CONSTANT SPEED RANGE

45 mph Distance: 72.8 miles  
 45 mph Energy Used: 16.7 kWhr  
 45 mph Efficiency: 0.229 kWhr/mile  
 45 mph Specific Energy: 0.0132 kWhr/lb  
 60 mph Distance: 39.5 miles  
 60 mph Energy Used: 14.2 kWhr  
 60 mph Efficiency: 0.359 kWhr/mile  
 60 mph Specific Energy: 0.0113 kWhr/lb

### DRIVING CYCLE RANGE

77°F Distance: **57.86 miles**  
 77°F Energy Used: 21.09 kWhr  
 77°F Efficiency: 0.364 kWhr/mile  
 77°F Specific Energy: 0.0167 kWhr/lb  
 19°F Distance: **53.80 miles**  
 19°F Energy Used: 18.09 kWhr  
 19°F Efficiency: 0.336 kWhr/mile  
 19°F Specific Energy: 0.0144 kWhr/lb  
 Performance Goal: 60 miles

### GRADEABILITY\*

Maximum Grade: 26%  
 Performance Goal: 25%  
 Speed At 3% Grade: **53 mph**  
 Performance Goal: 55 mph  
 Speed At 6% Grade: **42 mph**  
 Performance Goal: 45 mph

### HANDLING COURSE

Avg Time @ 90% SOC: 57.8 sec  
 Avg Time @ 50% SOC: 57.2 sec  
 Avg Time @ 20% SOC: 57.1 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: 172.4/258.2 feet

### CHARGER

Ground Current During Charge: <0.01 mA  
 Battery Leakage Current: 0.02 mA  
 Charger Efficiency: 96.2%  
 Average Power Factor: **0.943**  
 Performance Goal: 0.95  
 Average THD: **19.4%**  
 Performance Goal: 5%  
 Time From 80% DOD: 6 hours 52 minutes  
 Performance Goal: <8 hours

### VEHICLE TYPE

Conversion Of: Chevrolet S10  
 VIN: 1GCCS1448SK100655  
 Seating Capacity: 2 Adults  
 Features: AM/FM Stereo,  
 Battery Thermal Management,  
 Power Steering, Power Brakes,  
 Front Disc Brakes & Anti-Lock  
 Brakes

### DIMENSIONS

Wheelbase: 109.0 inches  
 Track F/R: 54.2/54.5 inches  
 Length: 189.7 inches  
 Width: 68.1 inches  
 Height: 62.3 inches  
 Ground Clearance: >50 mm  
 Cargo Space: No Intrusion  
 on OEM Cargo Bed

### WEIGHT

Curb Weight: 3790 lbs  
 Test Weight: 3991 lbs  
 Distribution F/R: 47/53 %  
 Conversion GVWR: 4600 lbs  
 OEM GVWR: 4600 lbs  
 Payload: **609 lbs**

### WHEELS & TIRES

Wheel Size: 15 inch  
 Tire Mfg: Goodyear Momentum  
 Tire Size: P205/75R15  
 Tire Pressure F/R: 50/50 psi  
 Spare Installed: No

### DRIVE SYSTEM

Drive Type: Dual AC Induction  
 Motor Mfg: Solectria  
 Controller Mfg: Solectria  
 Transmission: Single Speed

### BATTERY

Manufacturer: Hawker Energy  
 Type: G12V38Ah10C Sealed Lead Acid  
 Number of Modules: 36  
 Total Traction Voltage: 144 volts  
 Battery Pack Weight: 1260 lbs  
 Locations In Vehicle: Under Cargo Bed  
 & Under Hood

### CHARGER

Location: Behind Seat in Cab  
 Input Voltage(s): 110/208/220 volts AC  
 Input Current(s): 15/14.4/12.5 amperes AC

### INTERLOCKS

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

### REQUIREMENTS

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

*Battery charging delayed by high temperature*  
*Charger output fuse replaced*  
*Required charger adjustment*  
*Payload 41 lbs less than required*

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