VEHICLE SPECIFICATIONS

1999 Ford Ranger

WEIGHTS
Design Curb Weight: 4196 lbs
Delivered Curb Weight: 4144 lbs
GVWR: 5350 lbs
GAWR F/R: 2710/2900 lbs
Payload: 1154 lbs

DIMENSIONS
Wheelbase: 112.4 inches
Track F/R: 58.7/57.3 inches
Length: 187.4 inches
Width: 69.8 inches
Height: 66.0 inches
Ground Clearance: 5.0 inches at GVWR

CHARGER
Location: Underhood
Type: Conductive
Input Voltages: 187 to 260 VAC

TIRES
Tire Mfg: Uniroyal
Tire Model: Tigerpaw AWP Radial
Tire Size: P255/70R15
Tire Pressure F/R: 51/51 psi
Spare Installed: No

PERFORMANCE STATISTICS

ACCELERATION 0-50 mph
At 100% SOC: 10.3 sec
At 50% SOC: 11.2 sec
Max. Power: 84.13 kW
Performance Goal: 13.5 sec at 50% SOC

MAXIMUM SPEED @ 50% SOC
At 1/4 Mile: 62.1 mph
At 1 Mile: 74.6 mph
Performance Goal: 70 mph in one mile

CONSTANT SPEED RANGE @ 45 mph
Range: 115.0 miles
Energy Used: 27.81 kWh
Average Power: 10.94 kW
Efficiency: 242 Wh/mile
Specific Energy: 57.3 Wh/kg

CONSTANT SPEED RANGE @ 60 mph
Range: 74.2 miles
Energy Used: 26.83 kWh
Average Power: 21.52 kW
Efficiency: 362 Wh/mile
Specific Energy: 55.3 Wh/kg

DRIVING CYCLE RANGE
Range per SAE J1634: 82.4 miles
Energy Used: 25.95 kWh
Average Power: 8.32 kW
Efficiency: 315 Wh/mile
Performance Goal: 60 miles

BRAKING FROM 60 mph
Controlled Dry: 166.6 feet
Controlled Wet: 215.2 feet
Panic Wet: 195.7 feet

HANDLING
Avg Time @ 90% SOC: 56.5 sec
Avg Time @ 50% SOC: 55.8 sec
Avg Time @ 20% SOC: 55.4 sec
Avg 5-10 IRE Time: 35.8 sec

GRADEABILITY (Calculated)
Maximum Speed @ 3%: 67.4 mph
Maximum Speed @ 6%: 58.9 mph
Maximum Grade: 39.9%
Time on 3% Grade: 19 min 34 sec
Performance Goal: 15 Min

CHARGING EFFICIENCY
Efficiency: 485 Wh-AC/mile
Energy Cost @ 10 ¢/kWh: 4.85 ¢/mile

CHARGER
Max Charger Ground Current: <0.01 mA
Max Battery Leakage Current: <0.01 MU
Max DC Charge Current: 13.57 Amps
Max AC Charge Current: 24.96 Amps

Pwr Factor @ Max Current: 0.996
THDI @ Max Current: 5.07%
Peak Demand: 4.98 kW-AC

Time to Recharge: 8 Hrs 13 min
Performance Goal: 8 hours

TEST NOTES:
1. Design Payload Value. Value as tested was 1206 lbs.
2. DOT Side-wall Tire Air Pressure Rating; Ford recommends 50/50 psi.
3. Test was terminated upon receipt of the flashing Power Limit telltale.
4. At test termination, vehicle was still able to maintain the required drive schedule.
5. As detailed in the Owner's Manual, several telltales illuminated during the drive schedule.
6. At test termination, vehicle was not able to maintain the required drive schedule.
7. On 3% grade, this vehicle completed 38 minutes 55 seconds from 100% SOC.

Values in red indicate the Performance Goal was not met.
All Power and Energy values are DC unless otherwise specified.

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This vehicle meets the following EV America Minimum Requirements:

1. Vehicle has a payload of at least 400 pounds.
2. The OEM GVWR has not been increased.
3. The OEM GAWRs have not been increased.
4. Seating capacity is a least two (2) occupants.
5. A battery recycling plan has been submitted.
6. The OEM passenger space has not been intruded upon by the electrical conversion materials.
7. The vehicle has a parking mechanism or parking brake as required by 49 CFR 571.105.
8. The vehicle has a minimum range between charges of at least 50 miles when loaded with two 166-pound occupants and operated at a constant 45 mph.
9. The vehicle manufacturer has certified that this vehicle complies with the Federal Motor Vehicle Safety Standards (FMVSS) applicable on the date of manufacture.
10. The vehicle manufacturer has certified the batteries and battery enclosures comply with SAE J1766 and 49 CFR 571.301.
11. Batteries comply with the requirements of SAE J1718 and NEC 625 for charging in enclosed spaces without vent fans.
12. The vehicle manufacturer has certified that concentrations of explosive gases in the battery box do not exceed 25% of the Lower Explosive Limit (LEL) during and following normal or abnormal charging and operation of the vehicle.
13. The vehicle has a parking mechanism or parking brake as required by 49 CFR 571.105.
14. The vehicle has a minimum range between charges of at least 50 miles when loaded with two 166-pound occupants and operated at a constant 45 mph.
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