

1999 FORD

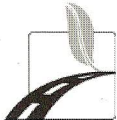
Electric RANGER



Lead Acid (PbA)

1999

Electric RANGER



Overview of the Ranger Electric (Lead Acid Batteries)

The 1999 Ford Ranger EV pickup truck is based on the best-selling compact truck, the Ford Ranger, and incorporates the same "Best-in-Class" design features as its 1999 gasoline counterpart. The Ranger EV is powered by proven lead acid batteries and is equipped with third-generation, electric vehicle-specific, powertrain components and electronics.

The Ranger EV is Ford's 1999 production electric vehicle and has been designed and tested to be reliable, durable and "Built Ford Tough." The Ranger EV is warranted by Ford and provides a "Best-in-Class" electric-powered pickup truck. Select Ford dealerships will provide sales, service, and complete customer satisfaction for the advanced technology Ranger EV.

The Ford Ranger EV has been built with fleet customer needs in mind, including such features as:

- Cargo carrying capacity
- Usable payload/Full bed
- 4-wheel ABS
- Climate control with standard A/C
- Dual air bags
- Tilt column

Additionally, the Ranger EV includes components unique to EV's such as:

- Regenerative Braking
- Electrohydraulic power steering
- On-board charger
- Battery heater
- Re-programmable electronics
- Conductive Charging

Vehicle	
Model Year	1999
Bodystyle	Styleside, regular cab pickup
Wheelbase	Short wheelbase
Payload (base vehicle)	650 lbs.
Gross vehicle weight	5400 lbs.
Dimensions	Same as 1999 gasoline powered engine Ranger
Ground clearance	7.4"
Powertrain	
Motor	90hp, 67kW(peak), high efficiency, liquid cooled, 3-phase AC induction
Transaxle (integrated with motor)	Single-speed, rear-wheel drive using half-shafts
Torque	140 ft. - lbs.
Standard Features	
Dual Air Bags	Occupant safety protection
Electronic Microprocessor Control Units	Ford designed, state-of-the-art
-Battery Controller	Monitors functions of battery
-Motor Inverter	Converts high-voltage DC to 3-phase AC
-Communication Center	Operates instrumentation and climate control
Heater	Electric resistance
Regenerate Braking	Energy recovery to increase range
Economy Drive	Driver controlled with increased regenerative braking to maximize vehicle range
DC/DC Converter	Electronic "alternator"
4-wheel disc ABS	Straighter stopping control under most conditions.
Power Steering	Electrohydraulic
Wheels and Tires	Styled lightweight aluminum wheels, 15" low rolling resistance tires

Battery	
Type	Sealed lead acid
Modules	39/8-volt
Voltage	312 volt system
Battery energy capacity rating @ FUDS	23 kWh (19 kWh at 85% discharge)
Charger	On-board, 240volts/30amp
Performance	
0-50 mph acceleration	12.5 seconds (gasoline Ranger <12sec.)
Top speed (governed)	75 mph
Range	
-MH	73 miles
-FUDS cycle @ 72F without A/C or heater operation	82 miles
-Customer range @ 72F	50 miles
-Customer range @ 32F including heater	35 miles
Warranty	
Vehicle	Same as 1999 gasoline powered Ranger (3years/36,000 miles)
Batteries	2-year; 1 year full, second year pro-rated
Options	
Spare Tire and Jack	Mounted in pickup bed



Ford Motor Company

