



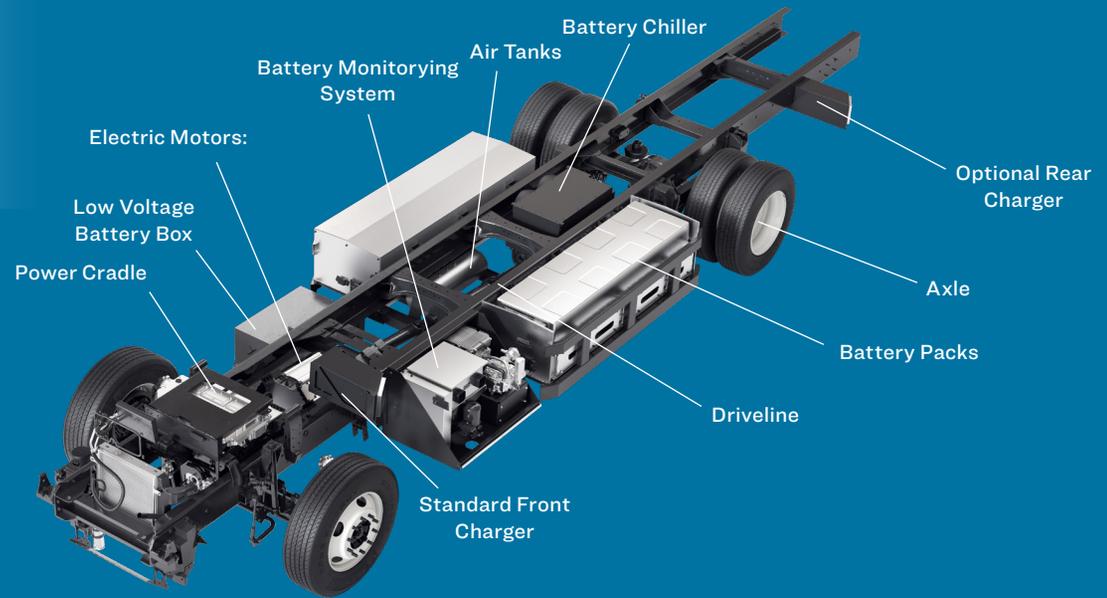
MODEL
220
EV

Zero
Emissions
Vehicle

MODEL 220_{EV}

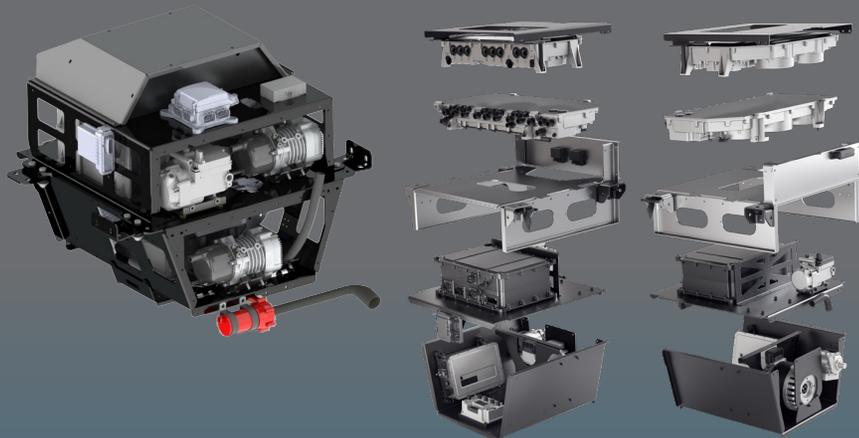
The Peterbilt 220EV fulfills a crucial role as the medium duty EV offering in Peterbilt's EV family. The 220EV is joined by the Model 579EV and Model 520EV for the most complete lineup of electric vehicles in the industry. The 220EV provides environmentally conscious customers a zero emissions vehicle for clean, efficient operation and lower overall maintenance.

Designed for driver comfort and productivity, the Model 220EV features enhanced visibility, superior maneuverability, a spacious interior and ease of serviceability for maximum uptime. The Model 220EV is ideal for short route pickup and delivery applications.



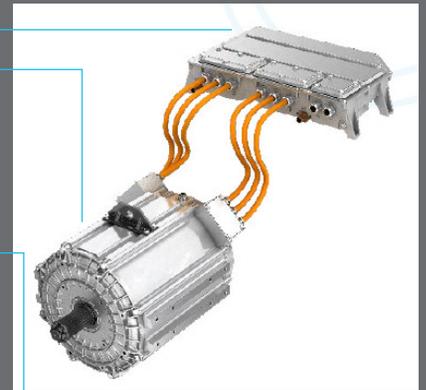
The fully integrated, all-electric powertrain of the Model 220EV is designed for optimal weight distribution and performance. Battery packs are mounted outside of the frame rails, with air tanks mounted inside the frame.

The **power electronics cradle** includes the vehicle's on-board AC charger, battery disconnect controls, vehicle software and air compressor. The cradle is located in a single, easily accessible service point, where a traditional diesel engine would be located.



The **inverter** converts the direct current from the batteries **drive motor**.

The direct-drive motor provides power straight to a traditional driveline.



The **Lithium Iron Phosphate (LFP)** battery packs are mounted outside the frame rails. The batteries are thermally controlled with a chiller or heater to provide a consistent temperature. This increases battery life and optimizes performance in all weather conditions.



Regenerative braking re-captures energy to recharge the batteries, to help maximize the vehicle's range.

MODEL 220EV SPECIFICATIONS

E-Motor

- Class 6
 - 207 hp (154 kW) Continuous Power
 - 355 hp (265 kW) Peak Power
- Class 7
 - 347 hp (259 kW) Continuous Power
 - 499 hp (372 kW) Peak Power
- Drive Configuration: 4X2

Batteries

- Lithium Iron Phosphate (LFP), Thermally Controlled
- 618 Volts
- Configurations Available
 - 141 kWh Energy Storage, 100 Mile Range
 - 209 kWh Energy Storage, 150 Mile Range
 - 282 kWh Energy Storage, 200 Mile Range

Charging

- AC
 - 19.2 kW Power Rating
 - 6.5-13 Hour Charge Time
- DC Fast – Charging
 - 150 kW Power Rating
 - 2 Hour Charge Time
- Charging Locations
 - BOC – Standard
 - EOF – Optional

Dimensions

- GVWR
 - 26,000 lbs. (Class 6)
 - 33,000 lbs. (Class 7)
- Wheel Bases: 206", 218", 274"
- Body Lengths: 24', 26', 30'
- 12,300 lbs. – 14,800 lbs. Curb Weight

Gross Axle Weight Ratings

- Class 6 Front – 10,000 lbs.
- Class 7 Front – 12,000 lbs.
- Class 6 Rear – 16,000 lbs.
- Class 7 Rear – 21,000 lbs.
- Rear Axle Ratio: 5.57 with 22.5 Wheels/4.63 with 19.5 Wheels

Suspensions

- Front Suspension – Parabolic Spring
- Rear Suspension
 - Reyco Mechanical
 - Hendrickson HAS210
 - Hendrickson HAS230 Air Ride

Wheels/Tires/Brakes

- Wheels – 22.5" Steel Painted White
- Wheels – 19.5" Steel Painted White
- Tires – F/R: 11R22.5"
- Tires – F/R: 19.5"
- Brakes – Front Air Disc & Rear Drum Standard

MODEL 220_{EV}

MODEL 220EV SPECIFICATIONS continued

Frame

- 34" Frame Spacing
- Steel Painted Gray Bumper

Cab

- 63.4" BBC
- 95" Cabin Width
- 104" Cabin Height
- Hydraulic 55-Degree Tilting Steel Cab
- 82.5" Cab Width
- Driver Seat – Air Suspension
- Passenger Seat – 2-Person Bench Standard, Single Person Air Ride Optional
- Center Storage Console & Cupholders
- Heater & Air Conditioning
- Cruise Control
- Power Windows
- Power & Heated Mirrors

Paint

- Cab – Ice White
- Frame – Black

Additional Options

- Speakers & Wiring for Customer Installed Radio
- Rear Shock Absorbers – Reyco
- Rear Axle Stabilizer Bar – Reyco
- Rear Differential Lock
- Rear Mud Flap Hanger & Shields
- Backup Alarm
- Wiring Only for Customer Installed Backup Alarm
- Orange Seat Belts
- Red Seat Belts

Target Applications

- Pickup & Delivery
- Regional Haul
- Lease/Rental
- Food & Beverage

* Technical specifications are dependent on configuration and component selected.



For more information on the Model 220EV, visit peterbilt.com.