



Isuzu NRR EV

SEA ... the Future

The Isuzu NRR EV is a commercially viable, 100% electric truck. With unparalleled performance delivered through SEA's unique, all electric power-system known as SEA-Drive® 120b. The NRR EV delivers class leading comfort, range, emissions and total-cost-of-ownership (TCO).

The SEA-Drive® 120b is built on a cabover platform with GVWR range from 19,500 lbs to 25,500 lbs and a 2500Nm electric motor. The 136kWh battery pack delivers class leading range of up to 220 miles* and a typical breakeven period of less than 4 years.

SPECIFICATIONS



Isuzu NRR EV

Cabover

- GVWR: 19,500 lbs
- GAWR: Front: 7,275 lbs, Rear: 13,660 lbs
- Wheelbase: 176"
- Overall Length: 268"
- Suspension F/R Springs: Tapered/Multi-leaf 8,440/14,550 lbs
- Tires LRR: 225/70R19.5F (12-pr) Standard
- Steering: Integral Hydraulic Power
- Steering Column: Tilt and Telescopic

SEA-Drive® 120b

- Powered by SEA-Drive® 120b
- Range: Up to 220 miles* (unladen)
- Operating Temperature Range: 0°F to 130°F
- Controller: Centralized for optimization of entire system

100% Electric Drivetrain 120b

- Type: Permanent magnet motor
- Continuous Power: 150kW
- Maximum Power: 250kW
- Maximum Torque: 2500Nm
- Efficiency: 95.0% peak efficiency

Batteries

- 136kWh battery capacity
- Life Cycle: 10+ Years
- Cell Type: Lithium-Ion (LiNiMnCoO₂) – Known as NMC
- Balancing: Passive Cells
- Energy Density: 127.7 Wh/Kg (18.8% increase in late 2019)
- Certified To: GB31467 and R100/02

Charging

- Standard charging is provided through SAE 1772 level 2 charging using 80 Amp. 6 hours to completely charge at 22kW maximum charging power. The DC to DC converter is 4kW with 24V power supply EN61851 compliant

Brakes

- Service Brakes: Hydraulic Boosted with 4-Channel ABS Disc/Drum

Cooling System

- Variable speed IP67 radiator fans to increase power usage and efficiency

Electrical System

- Type: 24V negative earth
- System Batteries: 2x12V 100 Ah – maintenance free

HVAC - Air Conditioning and Heating

- Scroll permanent magnet motor – 6.5kW
- High pressure relief valve
- HVDC powered
- CAN communication to increase power usage efficiency
- PTC fluid heater – 6.6kW
- HVDC powered
- Overheat protection

Telematics SEA-Connect®

- World-wide GSM certification with fast internal modem (3G)
- External antenna with strong signal strength
- High-end industrial grade micro SD card
- Very low-power-draw and passive operation
- Based on TDDR principal, with 1 and 2 standard, and 3 and 4 future optional extras
(T)ruck = vehicle diagnostics and operational optimisation
(D)river = driver and vehicle interaction optimization
(D)elivery = interface the 'Smart Truck' with payload deliveries and freight receiver communication
(R)oute = route data collection for route planning and real time route optimization

SEA-Drive® Warranty

- 3 years or 60,000 miles
- 5 years for batteries

*Range figures are intended for comparability purposes. Actual range achieved will depend upon a number of factors including; load and body design, road conditions and topography, regenerative braking configuration and utilisation of electrical accessories.