



SEA Drive™ 180

SEA ... the Future

SEA-Drive™ 180a is built on a cab/chassis platform with a GVM range from 14t to 18t (30,900lbs to 57,300lbs). The 156kWh and 216kWh battery pack options delivers class leading range of up to 250km (160 miles) and a typical breakeven period of less than 4 years.

SEA-Drive™ 180b is built on a cab/chassis platform with a GVM range from 18t to 26t (30,900lbs to 57,300lbs). The 156kWh and 216kWh battery pack options delivers class leading range of up to 250km (160 miles) and a typical breakeven period of less than 4 years.

SEA Drive™ 180

SEA-Drive™ 180

- Powered by SEA-Drive™ 180
- Range: Up to 250km (160 miles)
- Operating Temperature Range: -20°C to +45°C
- Controller: Centralised for optimisation of entire system

100% Electric Drivetrain

- Type: Permanent Magnet Motor
- Continuous Power: 225kW
- Maximum Power: 350kW
- Maximum Torque: 3500Nm
- Efficiency: 94% peak efficiency

Batteries 180a

- 156kWh battery capacity
- Life Cycle: 10+ Years
- Cell Type: Lithium-Ion (LiNiMnCoO₂) – Known as NMC
- Balancing: Passive Cell
- Energy Density: 127.7 Wh/Kg (18.8% increase in 2019)
- Certified To: GB31467 and R100/02

Batteries 180b

- 216kWh battery capacity
- Life Cycle: 10+ Years
- Cell Type: Lithium-Ion (LiNiMnCoO₂) – Known as NMC
- Balancing: Passive Cell
- Energy Density: 127.7 Wh/Kg (18.8% increase in 2019)
- Certified To: GB31467

Charging

- Standard charging is provided through an IEC 62196 Mode 3 charging using a 32 Amp three phase plug, with 22kW maximum charging is up to 10 hours. The DC to DC converter is 4kW with 24V power supply EN61851 compliant.

Cooling System

- Variable speed IP67 Radiator Fans to increase power usage and efficiency.

Electrical System

- Type: 24V negative earth
- System Batteries: 2x 12V 100 Ah – maintenance free

HVAC - Air Conditioning and Heating

- Scroll permanent magnet motor – 6.5kW
- High pressure relief valve
- HVDC powered
- Isolation > 10 M ohm
- 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 optimisation
(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 optimisation

Battery Warranty

- 5 years
- EV component warranty tied to OEM chassis warranty