Technical specification

**YT202-EV, 4x2**

**TRACTION MOTOR**
Siemens
- Output: 138 kW @ 2200-2500 rpm
- Torque: 780 Nm @ 0-1800 rpm
- Max. engine speed: 2500 rpm
- Cooling: Liquid cooled

**TRACTION CONTROLLER**
Siemens
- Max power: 227 kW
- Cont. current: 250 A
- Nominal Voltage: 650 V
- Cooling: Liquid cooled

**BATTERY PACKS**
- Capacity: 113 / 170 kWh
- Nominal Voltage: 614 V
- Technology: LFMP
- Charger capacity: 40-80 kW
- Charger type: AC charger
- Charge time: approx. 2.5 hours
- Maintenance free batteries
- Designed compliant to ECE R100
- *with optional 3rd battery pack

**GEARBOX**
Allison, type 3000
- Automatic shift transmission with 4 gears forward, 1 gear reverse and torque converter equipped with Lock-Up clutch.
- Including std. F/R shift protection.

<table>
<thead>
<tr>
<th>Gear</th>
<th>Theoretical speed (3000rpm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ratio's</td>
</tr>
<tr>
<td>3.487</td>
<td>14</td>
</tr>
<tr>
<td>1.864</td>
<td>26</td>
</tr>
<tr>
<td>1.409</td>
<td>34</td>
</tr>
<tr>
<td>1.00</td>
<td>48</td>
</tr>
</tbody>
</table>

Note: speed is 37 km/h @ 2300 engine rpm

**FRONT AXLE**
VOLVO FA8.2 low
- Non-driven steering axle
- Capacity: 11,000 kg (at 20 km/h)*
- * Actual axle load capacity depending on tyre load rating.

**REAR AXLE**
Terberg TTA type 70-11
- Capacity: 30,000 kg (at 20 km/h)*
- Hub reduction axle with total reduction ratio 11.98:1

**HYDRAULIC SYSTEM**
Motor driven hydraulic load sensing pump for steering and lifting 5th wheel plate, mounted to the transmission mounted PTO, with priority valve for the steering system.
- Hydraulic oiltank mounted to the chassis frame.
- Tank capacity 127 dm³
- Hydraulic valve electrically operated from inside the cab to lift/lower/hold the 5th wheel. Working pressure 250 bar.
- 2 heavy-duty hydraulic single stage liftframs.

**CHASSIS**
- Welded construction of rolled steel channels 200x100x10 mm
- Air reservoirs and battery packs protected mounted to the chassis, access steps with anti-slip surface integrated in chassis.
- Towing pin attachment at front- and rear of chassis.

**BRAKE SYSTEM**
Full air brake system with split front- and rear-axle and parking brake circuits.
- Parking brake working on rear axle.
- Front and rear axle equipped with S-cam brake system with automatic slack adjusters.
- Brake pressure: 7.8 – 8.5 bar.
- Air reservoirs: 1 x 40 dm³ and 3 x 30 dm³ with std. airdryer.
- 2 Line trailer brake system mounted on rear side of cabin, with yellow and red spiralhoses with glad-hands.

**COOLING SYSTEM**
- Plate type cooler for the liquid cooled power electronics with electric driven fan.
- Electric brushless water pump.
- Separate oil to air transmission cooler.

<table>
<thead>
<tr>
<th>Tyres</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>11R22.5</td>
<td>6 pieces</td>
</tr>
<tr>
<td>Tyres</td>
<td>Rims: 10 stud disc wheels 22.5 x 8.25</td>
</tr>
</tbody>
</table>

**STEERING SYSTEM**
- Fully hydrostatic orbitrol steering system with priority valve and double acting steering cylinder.
- Emergency steering property.
- Steering wheel diameter 350 mm
- Turning circle over front bumper (m)

<table>
<thead>
<tr>
<th>WB</th>
<th>3400</th>
</tr>
</thead>
<tbody>
<tr>
<td>13.8</td>
<td></td>
</tr>
</tbody>
</table>
ELECTRICAL SYSTEM (24 Volt)

28 Volt negative earth.

DC/DC converter: 28V/200A
Batteries: 2 x 12 Volt / 25 Ah
Type: semi traction
Fuses and relays mounted in central electrical box.
Wiring with code numbers and easy readable/visible/accessible mounted in central electrical box.
7 pin SAE socket at rear of cab for trailer connection (DIN ISO 1185).
Integrated datalogger, logs history of several operating parameters.

LIGHTING

90 mm bi-LED headlights with main and dipped beam. Combined with 83 mm three function LED with Daytime Running light, direction indicator and position light.

LED rear lights on rear of chassis, with direction indicators and brake lights.
5th wheel floodlight behind cabin.
Gauge illumination.
Interior light in cabin.
Mounting for rotating beacon light.

CABIN

1 person – left hand or right hand drive position.
Forward facing driver’s position.

Dimensions outside:
- width: 1400 mm
- length: 1593 mm
- height: 1821 mm

Cabin construction of over dimensioned strong steel profiles to comply to latest Rops/Fops regulations.

Front dashboard switches:
- Ignition
- Motor start
- Emergency button
- Differential lock
- Worklight
- Hazard lights
- Lighting
- Indicator lights:
  - Direction indicator
  - High beam
  - Differential lock (option)
  - Handbrake activated
  - 5th wheel locking status

Indicator lights/check system with optical signal and/or buzzer on:
- High temperature gearbox
- Low voltage
- Low air pressure circuit 1/2

Display
- State of Charge (SOC)
- Mileage / operating hours
- Engine speed
- Vehicle speed
- System temperature
- Traction system information
- System information
- Air pressure circuit 1
- Air pressure circuit 2
- Battery pack information
- Battery cell data

Panel next to driver seat
- 5th wheel unlocking
- 5th wheel height control lever

Steering column:
- Combi switch for:
  - Direction indicators
  - Wiper front
  - High/Low beam
  - Horn

Optional:
- Co-driver foldaway seat
- Full electric Air conditioning
- 3rd batterypack
  - 57 kWh
  - 92 Ah