



# Customer Information

## Vehicle Configuration

VIN: 1234  
 Axle Configuration: 4x2  
 Total Propulsion Power: 1000 kW  
 CO2 Standards Group: 5-RD  
 Address: Inffeldgasse 19  
 Type Approval Nbr.: ASDF  
 Sleeper Cab: yes  
 HE HDV: no  
 PEV Architecture (Axle 2): E-IEPC  
 Dynamic Charging Tech.: Wireless  
 Usable Storage Cap: 963 kWh

Vehicle Category: N3  
 TPMLM: 18000 kg  
 Vehicle Group: 5  
 Manufacturer: TU Graz  
 Model: HEV Heavy Lorry Px  
 Corrected Actual Mass: 10143 kg  
 ZEV: yes  
 PEV Architecture (Axle 1): E2  
 Off Vehicle Chg.: yes  
 Total Storage Cap: 1203 kWh

### Powertrain (Axle 1)

#### Electric Machine System

Total Rated Propulsion Power: 650 kW

#### EM Voltage Levels

Voltage Level 100 V

Max. Cont. Power: 152 kW

Voltage Level 1000 V

Max. Cont. Power: 152 kW

Transmission Values: Standard values

Nbr. Gears: 12

Axlegear Ratio: 2.640

Transmission Type: AMT

Retarder: yes

### Powertrain (Axle 2)

#### Electric Machine System

Total Rated Propulsion Power: 312 kW

#### EM Voltage Levels

Voltage Level 100 V

Max. Cont. Power: 252 kW

Voltage Level 100 V

Max. Cont. Power: 252 kW

Nbr. Gears: 3

Axlegear Ratio: 2.640

Retarder: yes

Average RRC: 0.0038

### Advanced Driver Assistant Systems

PCC: yes

#### Axle 1

Dimension: 315/70 R22.5

Fuel Eff. Class:

Certification Nbr: e12\*0815/8051\*2017/05E0000\*00

Steering Pump Tech.: Electric driven pump

#### Axle 2

Dimension: 315/70 R22.5

Fuel Eff. Class:

Certification Nbr: e12\*0815/8051\*2017/05E0000\*00

## Signature Input Data

Digest Value: zc/akPhIpX53GKhHiDq3FvvBUBByUUCJNiha8VwoOII8=

## Signature Manufacturer Record File

Digest Value: zkMYnihl+3Skvqm0Ou+1VwPdpez2MGKPqwmED2/27gk=

Simulation Status: **Success**

**Mission Profile:** Long Haul

**Total Vehicle Mass:** 2600 kg

**Payload:** 2600 kg

**Total**

Average Speed: 30.0 km/h

**Electric Energy**

Energy cons.: 1.853 kWh/km  
Energy cons.: 0.7126 kWh/t-km  
Energy cons.: 0.02036 kWh/m<sup>3</sup>-km  
Energy cons.: 6.670 MJ/km  
Energy cons.: 2.565 MJ/t-km  
Energy cons.: 0.07330 MJ/m<sup>3</sup>-km

**Electric Ranges (begin of life)**

RCDA<sup>1</sup>: 547.3 km  
EAER<sup>3</sup>: 547.3 km  
ZCER<sup>2</sup>: 547.3 km

**Electric Ranges (end of life)**

RCDA<sup>1</sup>: 493.0 km  
EAER<sup>3</sup>: 493.0 km  
ZCER<sup>2</sup>: 493.0 km

**Mission Profile:** Long Haul

**Total Vehicle Mass:** 19300 kg

**Payload:** 19300 kg

**Total**

Average Speed: 30.0 km/h

**Electric Energy**

Energy cons.: 1.853 kWh/km  
Energy cons.: 0.09600 kWh/t-km  
Energy cons.: 0.02036 kWh/m<sup>3</sup>-km  
Energy cons.: 6.670 MJ/km  
Energy cons.: 0.3456 MJ/t-km  
Energy cons.: 0.07330 MJ/m<sup>3</sup>-km

**Electric Ranges (begin of life)**

RCDA<sup>1</sup>: 547.3 km  
EAER<sup>3</sup>: 547.3 km  
ZCER<sup>2</sup>: 547.3 km

**Electric Ranges (end of life)**

RCDA<sup>1</sup>: 493.0 km  
EAER<sup>3</sup>: 493.0 km  
ZCER<sup>2</sup>: 493.0 km

**Mission Profile:** Long Haul EMS

**Total Vehicle Mass:** 3500 kg

**Payload:** 3500 kg

**Total**

Average Speed: 30.0 km/h

**Electric Energy**

Energy cons.: 1.853 kWh/km  
Energy cons.: 0.5294 kWh/t-km  
Energy cons.: 0.01319 kWh/m<sup>3</sup>-km  
Energy cons.: 6.670 MJ/km  
Energy cons.: 1.906 MJ/t-km  
Energy cons.: 0.04747 MJ/m<sup>3</sup>-km

**Electric Ranges (begin of life)**

RCDA<sup>1</sup>: 547.3 km  
EAER<sup>3</sup>: 547.3 km  
ZCER<sup>2</sup>: 547.3 km

**Electric Ranges (end of life)**

RCDA<sup>1</sup>: 493.0 km  
EAER<sup>3</sup>: 493.0 km  
ZCER<sup>2</sup>: 493.0 km

**Mission Profile:** Long Haul EMS

**Total Vehicle Mass:** 26500 kg

**Payload:** 26500 kg

**Total**

Average Speed: 30.0 km/h

**Electric Energy**

Energy cons.: 1.853 kWh/km  
Energy cons.: 0.06992 kWh/t-km  
Energy cons.: 0.01319 kWh/m<sup>3</sup>-km  
Energy cons.: 6.670 MJ/km  
Energy cons.: 0.2517 MJ/t-km  
Energy cons.: 0.04747 MJ/m<sup>3</sup>-km

**Electric Ranges (begin of life)**

RCDA<sup>1</sup>: 547.3 km  
EAER<sup>3</sup>: 547.3 km  
ZCER<sup>2</sup>: 547.3 km

**Electric Ranges (end of life)**

RCDA<sup>1</sup>: 493.0 km  
EAER<sup>3</sup>: 493.0 km  
ZCER<sup>2</sup>: 493.0 km

**Mission Profile:** Regional Delivery

**Total Vehicle Mass:** 2600 kg

**Payload:** 2600 kg

**Total**

Average Speed: 30.0 km/h

**Electric Energy**

Energy cons.: 1.853 kWh/km  
Energy cons.: 0.7126 kWh/t-km  
Energy cons.: 0.02036 kWh/m<sup>3</sup>-km  
Energy cons.: 6.670 MJ/km  
Energy cons.: 2.565 MJ/t-km  
Energy cons.: 0.07330 MJ/m<sup>3</sup>-km

**Electric Ranges (begin of life)**

RCDA<sup>1</sup>: 547.3 km  
EAER<sup>3</sup>: 547.3 km  
ZCER<sup>2</sup>: 547.3 km

**Electric Ranges (end of life)**

RCDA<sup>1</sup>: 493.0 km  
EAER<sup>3</sup>: 493.0 km  
ZCER<sup>2</sup>: 493.0 km

**Mission Profile:** Regional Delivery

**Total Vehicle Mass:** 12900 kg

**Payload:** 12900 kg

**Total**

Average Speed: 30.0 km/h

**Electric Energy**

Energy cons.: 1.853 kWh/km  
Energy cons.: 0.1436 kWh/t-km  
Energy cons.: 0.02036 kWh/m<sup>3</sup>-km  
Energy cons.: 6.670 MJ/km  
Energy cons.: 0.5171 MJ/t-km  
Energy cons.: 0.07330 MJ/m<sup>3</sup>-km

**Electric Ranges (begin of life)**

RCDA<sup>1</sup>: 547.3 km  
EAER<sup>3</sup>: 547.3 km  
ZCER<sup>2</sup>: 547.3 km

**Electric Ranges (end of life)**

RCDA<sup>1</sup>: 493.0 km  
EAER<sup>3</sup>: 493.0 km  
ZCER<sup>2</sup>: 493.0 km

**Mission Profile:** Regional Delivery EMS

**Total Vehicle Mass:** 3500 kg

**Payload:** 3500 kg

**Total**

Average Speed: 30.0 km/h

**Electric Energy**

Energy cons.: 1.853 kWh/km  
Energy cons.: 0.5294 kWh/t-km  
Energy cons.: 0.01319 kWh/m<sup>3</sup>-km  
Energy cons.: 6.670 MJ/km  
Energy cons.: 1.906 MJ/t-km  
Energy cons.: 0.04747 MJ/m<sup>3</sup>-km

**Electric Ranges (begin of life)**

RCDA<sup>1</sup>: 547.3 km  
EAER<sup>3</sup>: 547.3 km  
ZCER<sup>2</sup>: 547.3 km

**Electric Ranges (end of life)**

RCDA<sup>1</sup>: 493.0 km  
EAER<sup>3</sup>: 493.0 km  
ZCER<sup>2</sup>: 493.0 km

**Mission Profile:** Regional Delivery EMS

**Total Vehicle Mass:** 17500 kg

**Payload:** 17500 kg

**Total**

Average Speed: 30.0 km/h

**Electric Energy**

Energy cons.: 1.853 kWh/km  
Energy cons.: 0.1059 kWh/t-km  
Energy cons.: 0.01319 kWh/m<sup>3</sup>-km  
Energy cons.: 6.670 MJ/km  
Energy cons.: 0.3811 MJ/t-km  
Energy cons.: 0.04747 MJ/m<sup>3</sup>-km

**Electric Ranges (begin of life)**

RCDA<sup>1</sup>: 547.3 km  
EAER<sup>3</sup>: 547.3 km  
ZCER<sup>2</sup>: 547.3 km

**Electric Ranges (end of life)**

RCDA<sup>1</sup>: 493.0 km  
EAER<sup>3</sup>: 493.0 km  
ZCER<sup>2</sup>: 493.0 km

**Mission Profile:** Urban Delivery

**Total Vehicle Mass:** 2600 kg

**Payload:** 2600 kg

**Total**

Average Speed: 30.0 km/h

**Electric Energy**

Energy cons.: 1.853 kWh/km  
Energy cons.: 0.7126 kWh/t-km  
Energy cons.: 0.02036 kWh/m<sup>3</sup>-km  
Energy cons.: 6.670 MJ/km  
Energy cons.: 2.565 MJ/t-km  
Energy cons.: 0.07330 MJ/m<sup>3</sup>-km

**Electric Ranges (begin of life)**

RCDA<sup>1</sup>: 547.3 km  
EAER<sup>3</sup>: 547.3 km  
ZCER<sup>2</sup>: 547.3 km

**Electric Ranges (end of life)**

RCDA<sup>1</sup>: 493.0 km  
EAER<sup>3</sup>: 493.0 km  
ZCER<sup>2</sup>: 493.0 km

**Mission Profile:** Urban Delivery

**Total Vehicle Mass:** 12900 kg

**Payload:** 12900 kg

**Total**

Average Speed: 30.0 km/h

**Electric Energy**

Energy cons.: 1.853 kWh/km  
Energy cons.: 0.1436 kWh/t-km  
Energy cons.: 0.02036 kWh/m<sup>3</sup>-km  
Energy cons.: 6.670 MJ/km  
Energy cons.: 0.5171 MJ/t-km  
Energy cons.: 0.07330 MJ/m<sup>3</sup>-km

**Electric Ranges (begin of life)**

RCDA<sup>1</sup>: 547.3 km  
EAER<sup>3</sup>: 547.3 km  
ZCER<sup>2</sup>: 547.3 km

**Electric Ranges (end of life)**

RCDA<sup>1</sup>: 493.0 km  
EAER<sup>3</sup>: 493.0 km  
ZCER<sup>2</sup>: 493.0 km

**Mission Profile:** Construction

**Total Vehicle Mass:** 2600 kg

**Payload:** 2600 kg

**Total**

Average Speed: 30.0 km/h

**Electric Energy**

Energy cons.: 1.853 kWh/km  
Energy cons.: 0.7126 kWh/t-km  
Energy cons.: 6.670 MJ/km  
Energy cons.: 2.565 MJ/t-km

**Electric Ranges (begin of life)**

RCDA<sup>1</sup>: 547.3 km  
EAER<sup>3</sup>: 547.3 km  
ZCER<sup>2</sup>: 547.3 km

**Electric Ranges (end of life)**

RCDA<sup>1</sup>: 493.0 km  
EAER<sup>3</sup>: 493.0 km  
ZCER<sup>2</sup>: 493.0 km

**Mission Profile:** Construction

**Total Vehicle Mass:** 12900 kg

**Payload:** 12900 kg

**Total**

Average Speed: 30.0 km/h

**Electric Energy**

Energy cons.: 1.853 kWh/km  
Energy cons.: 0.1436 kWh/t-km  
Energy cons.: 6.670 MJ/km  
Energy cons.: 0.5171 MJ/t-km

**Electric Ranges (begin of life)**

RCDA<sup>1</sup>: 547.3 km  
EAER<sup>3</sup>: 547.3 km  
ZCER<sup>2</sup>: 547.3 km

**Electric Ranges (end of life)**

RCDA<sup>1</sup>: 493.0 km  
EAER<sup>3</sup>: 493.0 km  
ZCER<sup>2</sup>: 493.0 km

## Summary

Vocational: no

**Average Payload: 10.258 t**

### Electric Energy

Energy cons.: 1.853 kWh/km  
Energy cons.: 0.1806 kWh/t-km  
Energy cons.: 0.02036 kWh/m<sup>3</sup>-km  
Energy cons.: 6.670 MJ/km  
Energy cons.: 0.6502 MJ/t-km  
Energy cons.: 0.07330 MJ/m<sup>3</sup>-km

### Electric Ranges (begin of life)

RCDA<sup>1</sup>: 547.3 km  
EAER<sup>3</sup>: 547.3 km  
ZCER<sup>2</sup>: 547.3 km

### Electric Ranges (end of life)

RCDA<sup>1</sup>: 493.0 km  
EAER<sup>3</sup>: 493.0 km  
ZCER<sup>2</sup>: 493.0 km

## Summary

Vocational: yes

**Average Payload: 7.750 t**

### Electric Energy

Energy cons.: 1.853 kWh/km  
Energy cons.: 0.2391 kWh/t-km  
Energy cons.: 6.670 MJ/km  
Energy cons.: 0.8607 MJ/t-km

### Electric Ranges (begin of life)

RCDA<sup>1</sup>: 547.3 km  
EAER<sup>3</sup>: 547.3 km  
ZCER<sup>2</sup>: 547.3 km

### Electric Ranges (end of life)

RCDA<sup>1</sup>: 493.0 km  
EAER<sup>3</sup>: 493.0 km  
ZCER<sup>2</sup>: 493.0 km

## Application Information

VECTO Version: 5.0.8-DEV !!NOT FOR CERTIFICATION!!

Date: 2025-12-17T15:22:58.4900835Z

## Customer Information File Signature

Digest Value: Thm+EcJh1Ww0DwVBbVdNyLXMdPsEG8g/oX5CcSa9UCc=