



Customer Information

Vehicle Configuration

<i>VIN:</i>	1234	<i>Vehicle Category:</i>	N3
<i>Axle Configuration:</i>	4x2	<i>TPMLM:</i>	18000 kg
<i>Total Propulsion Power:</i>	1300 kW	<i>Vehicle Group:</i>	5
<i>CO2 Standards Group:</i>	5-LH	<i>Manufacturer:</i>	TU Graz
<i>Address:</i>	Inffeldgasse 19	<i>Model:</i>	HEV Heavy Lorry Px
<i>Type Approval Nbr.:</i>	ASDF	<i>Corrected Actual Mass:</i>	10143 kg
<i>Sleeper Cab:</i>	yes	<i>ZEV:</i>	yes
<i>HE HDV:</i>	yes	<i>FCHV Architecture (Axle 1):</i>	F3
<i>FCHV Architecture (Axle 2):</i>	F4	<i>Off Vehicle Chg.:</i>	yes
<i>Dynamic Charging Tech.:</i>	Wireless	<i>Fuelcell Total Rated Power:</i>	15 kW
<i>Total Storage Cap:</i>	1203 kWh	<i>Usable Storage Cap:</i>	963 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

Nbr. Gears: 1

Axlegear Ratio: 2.640

Retarder: yes

Powertrain (Axle 2)

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

Nbr. Gears: 1

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: GatBkQALiDNoGiEqeOSct5Fo3F5HTcHnUicY99W0DyE=

Signature Manufacturer Record File

Digest Value: Egz9vF3wRO9PffnqCu5915bv2YPiiTiKG0wn3/hgaR4=

Simulation Status: Success

Mission Profile: Long Haul

Total Vehicle Mass: 2600 kg

Payload: 2600 kg

Charge Depleting Mode

Average Speed: 30.0 km/h

Fuel: H2 FC

Fuel cons.: 0.0 g/km
Fuel cons.: 0.0 g/t-km
Fuel cons.: 0.0 g/m³-km
Fuel cons.: 0.0 MJ/km
Fuel cons.: 0.0 MJ/t-km
Fuel cons.: 0.0 MJ/m³-km

Electric Energy

Energy cons.: 1.853 kWh/km
Energy cons.: 0.7126 kWh/t-km
Energy cons.: 0.02036 kWh/m³-km
Energy cons.: 6.670 MJ/km
Energy cons.: 2.565 MJ/t-km
Energy cons.: 0.07330 MJ/m³-km

Electric Ranges (begin of life)

RCDA¹: 547.3 km
EAER³: 547.3 km
ZCER²: 547.3 km

Electric Ranges (end of life)

RCDA¹: 493.0 km
EAER³: 493.0 km
ZCER²: 493.0 km

Charge Sustaining Mode

Average Speed: 30.0 km/h

Fuel: H2 FC

Fuel cons.: 1033.3 g/km
Fuel cons.: 397.4 g/t-km
Fuel cons.: 11.36 g/m³-km
Fuel cons.: 124.0 MJ/km
Fuel cons.: 47.69 MJ/t-km
Fuel cons.: 1.363 MJ/m³-km

Electric Ranges

ZCER²: 29.0 km
Hydrogen range: 29.0 km

Mission Profile: Long Haul

Total Vehicle Mass: 19300 kg

Payload: 19300 kg

Charge Depleting Mode

Average Speed: 30.0 km/h

Fuel: H2 FC

Fuel cons.: 0.0 g/km
Fuel cons.: 0.0 g/t-km
Fuel cons.: 0.0 g/m³-km
Fuel cons.: 0.0 MJ/km
Fuel cons.: 0.0 MJ/t-km
Fuel cons.: 0.0 MJ/m³-km

Electric Energy

Energy cons.: 1.853 kWh/km
Energy cons.: 0.09600 kWh/t-km
Energy cons.: 0.02036 kWh/m³-km
Energy cons.: 6.670 MJ/km
Energy cons.: 0.3456 MJ/t-km
Energy cons.: 0.07330 MJ/m³-km

Electric Ranges (begin of life)

RCDA¹: 547.3 km
EAER³: 547.3 km
ZCER²: 547.3 km

Electric Ranges (end of life)

RCDA¹: 493.0 km
EAER³: 493.0 km
ZCER²: 493.0 km

Charge Sustaining Mode

Average Speed: 30.0 km/h

Fuel: H2 FC

Fuel cons.: 1033.3 g/km
Fuel cons.: 53.54 g/t-km
Fuel cons.: 11.36 g/m³-km
Fuel cons.: 124.0 MJ/km
Fuel cons.: 6.425 MJ/t-km
Fuel cons.: 1.363 MJ/m³-km

Electric Ranges

ZCER²: 29.0 km
Hydrogen range: 29.0 km

Mission Profile: Long Haul EMS

Total Vehicle Mass: 3500 kg

Payload: 3500 kg

Charge Depleting Mode

Average Speed: 30.0 km/h

Fuel: H2 FC

Fuel cons.: 0.0 g/km
Fuel cons.: 0.0 g/t-km
Fuel cons.: 0.0 g/m³-km
Fuel cons.: 0.0 MJ/km
Fuel cons.: 0.0 MJ/t-km
Fuel cons.: 0.0 MJ/m³-km

Electric Energy

Energy cons.: 1.853 kWh/km
Energy cons.: 0.5294 kWh/t-km
Energy cons.: 0.01319 kWh/m³-km
Energy cons.: 6.670 MJ/km
Energy cons.: 1.906 MJ/t-km
Energy cons.: 0.04747 MJ/m³-km

Electric Ranges (begin of life)

RCDA¹: 547.3 km
EAER³: 547.3 km
ZCER²: 547.3 km

Electric Ranges (end of life)

RCDA¹: 493.0 km
EAER³: 493.0 km
ZCER²: 493.0 km

Charge Sustaining Mode

Average Speed: 30.0 km/h

Fuel: H2 FC

Fuel cons.: 1033.3 g/km
Fuel cons.: 295.2 g/t-km
Fuel cons.: 7.355 g/m³-km
Fuel cons.: 124.0 MJ/km
Fuel cons.: 35.43 MJ/t-km
Fuel cons.: 0.8826 MJ/m³-km

Electric Ranges

ZCER²: 29.0 km
Hydrogen range: 29.0 km

Mission Profile: Long Haul EMS

Total Vehicle Mass: 26500 kg

Payload: 26500 kg

Charge Depleting Mode

Average Speed: 30.0 km/h

Fuel: H2 FC

Fuel cons.: 0.0 g/km
Fuel cons.: 0.0 g/t-km
Fuel cons.: 0.0 g/m³-km
Fuel cons.: 0.0 MJ/km
Fuel cons.: 0.0 MJ/t-km
Fuel cons.: 0.0 MJ/m³-km

Electric Energy

Energy cons.: 1.853 kWh/km
Energy cons.: 0.06992 kWh/t-km
Energy cons.: 0.01319 kWh/m³-km
Energy cons.: 6.670 MJ/km
Energy cons.: 0.2517 MJ/t-km
Energy cons.: 0.04747 MJ/m³-km

Electric Ranges (begin of life)

RCDA¹: 547.3 km
EAER³: 547.3 km
ZCER²: 547.3 km

Electric Ranges (end of life)

RCDA¹: 493.0 km
EAER³: 493.0 km
ZCER²: 493.0 km

Charge Sustaining Mode

Average Speed: 30.0 km/h

Fuel: H2 FC

Fuel cons.: 1033.3 g/km
Fuel cons.: 38.99 g/t-km
Fuel cons.: 7.355 g/m³-km
Fuel cons.: 124.0 MJ/km
Fuel cons.: 4.679 MJ/t-km
Fuel cons.: 0.8826 MJ/m³-km

Electric Ranges

ZCER²: 29.0 km
Hydrogen range: 29.0 km

Mission Profile: Regional Delivery

Total Vehicle Mass: 2600 kg

Payload: 2600 kg

Charge Depleting Mode

Average Speed: 30.0 km/h

Fuel: H2 FC

Fuel cons.: 0.0 g/km
Fuel cons.: 0.0 g/t-km
Fuel cons.: 0.0 g/m³-km
Fuel cons.: 0.0 MJ/km
Fuel cons.: 0.0 MJ/t-km
Fuel cons.: 0.0 MJ/m³-km

Electric Energy

Energy cons.: 1.853 kWh/km
Energy cons.: 0.7126 kWh/t-km
Energy cons.: 0.02036 kWh/m³-km
Energy cons.: 6.670 MJ/km
Energy cons.: 2.565 MJ/t-km
Energy cons.: 0.07330 MJ/m³-km

Electric Ranges (begin of life)

RCDA¹: 547.3 km
EAER³: 547.3 km
ZCER²: 547.3 km

Electric Ranges (end of life)

RCDA¹: 493.0 km
EAER³: 493.0 km
ZCER²: 493.0 km

Charge Sustaining Mode

Average Speed: 30.0 km/h

Fuel: H2 FC

Fuel cons.: 1033.3 g/km
Fuel cons.: 397.4 g/t-km
Fuel cons.: 11.36 g/m³-km
Fuel cons.: 124.0 MJ/km
Fuel cons.: 47.69 MJ/t-km
Fuel cons.: 1.363 MJ/m³-km

Electric Ranges

ZCER²: 29.0 km
Hydrogen range: 29.0 km

Mission Profile: Regional Delivery

Total Vehicle Mass: 12900 kg

Payload: 12900 kg

Charge Depleting Mode

Average Speed: 30.0 km/h

Fuel: H2 FC

Fuel cons.: 0.0 g/km
Fuel cons.: 0.0 g/t-km
Fuel cons.: 0.0 g/m³-km
Fuel cons.: 0.0 MJ/km
Fuel cons.: 0.0 MJ/t-km
Fuel cons.: 0.0 MJ/m³-km

Electric Energy

Energy cons.: 1.853 kWh/km
Energy cons.: 0.1436 kWh/t-km
Energy cons.: 0.02036 kWh/m³-km
Energy cons.: 6.670 MJ/km
Energy cons.: 0.5171 MJ/t-km
Energy cons.: 0.07330 MJ/m³-km

Electric Ranges (begin of life)

RCDA¹: 547.3 km
EAER³: 547.3 km
ZCER²: 547.3 km

Electric Ranges (end of life)

RCDA¹: 493.0 km
EAER³: 493.0 km
ZCER²: 493.0 km

Charge Sustaining Mode

Average Speed: 30.0 km/h

Fuel: H2 FC

Fuel cons.: 1033.3 g/km
Fuel cons.: 80.10 g/t-km
Fuel cons.: 11.36 g/m³-km
Fuel cons.: 124.0 MJ/km
Fuel cons.: 9.612 MJ/t-km
Fuel cons.: 1.363 MJ/m³-km

Electric Ranges

ZCER²: 29.0 km
Hydrogen range: 29.0 km

Mission Profile: Regional Delivery EMS

Total Vehicle Mass: 3500 kg

Payload: 3500 kg

Charge Depleting Mode

Average Speed: 30.0 km/h

Fuel: H2 FC

Fuel cons.: 0.0 g/km
Fuel cons.: 0.0 g/t-km
Fuel cons.: 0.0 g/m³-km
Fuel cons.: 0.0 MJ/km
Fuel cons.: 0.0 MJ/t-km
Fuel cons.: 0.0 MJ/m³-km

Electric Energy

Energy cons.: 1.853 kWh/km
Energy cons.: 0.5294 kWh/t-km
Energy cons.: 0.01319 kWh/m³-km
Energy cons.: 6.670 MJ/km
Energy cons.: 1.906 MJ/t-km
Energy cons.: 0.04747 MJ/m³-km

Electric Ranges (begin of life)

RCDA¹: 547.3 km
EAER³: 547.3 km
ZCER²: 547.3 km

Electric Ranges (end of life)

RCDA¹: 493.0 km
EAER³: 493.0 km
ZCER²: 493.0 km

Charge Sustaining Mode

Average Speed: 30.0 km/h

Fuel: H2 FC

Fuel cons.: 1033.3 g/km
Fuel cons.: 295.2 g/t-km
Fuel cons.: 7.355 g/m³-km
Fuel cons.: 124.0 MJ/km
Fuel cons.: 35.43 MJ/t-km
Fuel cons.: 0.8826 MJ/m³-km

Electric Ranges

ZCER²: 29.0 km
Hydrogen range: 29.0 km

Mission Profile: Regional Delivery EMS

Total Vehicle Mass: 17500 kg

Payload: 17500 kg

Charge Depleting Mode

Average Speed: 30.0 km/h

Fuel: H2 FC

Fuel cons.: 0.0 g/km
Fuel cons.: 0.0 g/t-km
Fuel cons.: 0.0 g/m³-km
Fuel cons.: 0.0 MJ/km
Fuel cons.: 0.0 MJ/t-km
Fuel cons.: 0.0 MJ/m³-km

Electric Energy

Energy cons.: 1.853 kWh/km
Energy cons.: 0.1059 kWh/t-km
Energy cons.: 0.01319 kWh/m³-km
Energy cons.: 6.670 MJ/km
Energy cons.: 0.3811 MJ/t-km
Energy cons.: 0.04747 MJ/m³-km

Electric Ranges (begin of life)

RCDA¹: 547.3 km
EAER³: 547.3 km
ZCER²: 547.3 km

Electric Ranges (end of life)

RCDA¹: 493.0 km
EAER³: 493.0 km
ZCER²: 493.0 km

Charge Sustaining Mode

Average Speed: 30.0 km/h

Fuel: H2 FC

Fuel cons.: 1033.3 g/km
Fuel cons.: 59.05 g/t-km
Fuel cons.: 7.355 g/m³-km
Fuel cons.: 124.0 MJ/km
Fuel cons.: 7.086 MJ/t-km
Fuel cons.: 0.8826 MJ/m³-km

Electric Ranges

ZCER²: 29.0 km
Hydrogen range: 29.0 km

Mission Profile: Urban Delivery

Total Vehicle Mass: 2600 kg

Payload: 2600 kg

Charge Depleting Mode

Average Speed: 30.0 km/h

Fuel: H2 FC

Fuel cons.: 0.0 g/km
Fuel cons.: 0.0 g/t-km
Fuel cons.: 0.0 g/m³-km
Fuel cons.: 0.0 MJ/km
Fuel cons.: 0.0 MJ/t-km
Fuel cons.: 0.0 MJ/m³-km

Electric Energy

Energy cons.: 1.853 kWh/km
Energy cons.: 0.7126 kWh/t-km
Energy cons.: 0.02036 kWh/m³-km
Energy cons.: 6.670 MJ/km
Energy cons.: 2.565 MJ/t-km
Energy cons.: 0.07330 MJ/m³-km

Electric Ranges (begin of life)

RCDA¹: 547.3 km
EAER³: 547.3 km
ZCER²: 547.3 km

Electric Ranges (end of life)

RCDA¹: 493.0 km
EAER³: 493.0 km
ZCER²: 493.0 km

Charge Sustaining Mode

Average Speed: 30.0 km/h

Fuel: H2 FC

Fuel cons.: 1033.3 g/km
Fuel cons.: 397.4 g/t-km
Fuel cons.: 11.36 g/m³-km
Fuel cons.: 124.0 MJ/km
Fuel cons.: 47.69 MJ/t-km
Fuel cons.: 1.363 MJ/m³-km

Electric Ranges

ZCER²: 29.0 km
Hydrogen range: 29.0 km

Mission Profile: Urban Delivery

Total Vehicle Mass: 12900 kg

Payload: 12900 kg

Charge Depleting Mode

Average Speed: 30.0 km/h

Fuel: H2 FC

Fuel cons.: 0.0 g/km
Fuel cons.: 0.0 g/t-km
Fuel cons.: 0.0 g/m³-km
Fuel cons.: 0.0 MJ/km
Fuel cons.: 0.0 MJ/t-km
Fuel cons.: 0.0 MJ/m³-km

Electric Energy

Energy cons.: 1.853 kWh/km
Energy cons.: 0.1436 kWh/t-km
Energy cons.: 0.02036 kWh/m³-km
Energy cons.: 6.670 MJ/km
Energy cons.: 0.5171 MJ/t-km
Energy cons.: 0.07330 MJ/m³-km

Electric Ranges (begin of life)

RCDA¹: 547.3 km
EAER³: 547.3 km
ZCER²: 547.3 km

Electric Ranges (end of life)

RCDA¹: 493.0 km
EAER³: 493.0 km
ZCER²: 493.0 km

Charge Sustaining Mode

Average Speed: 30.0 km/h

Fuel: H2 FC

Fuel cons.: 1033.3 g/km
Fuel cons.: 80.10 g/t-km
Fuel cons.: 11.36 g/m³-km
Fuel cons.: 124.0 MJ/km
Fuel cons.: 9.612 MJ/t-km
Fuel cons.: 1.363 MJ/m³-km

Electric Ranges

ZCER²: 29.0 km
Hydrogen range: 29.0 km

Mission Profile: Construction

Total Vehicle Mass: 2600 kg

Payload: 2600 kg

Charge Depleting Mode

Average Speed: 30.0 km/h

Fuel: H2 FC

Fuel cons.: 0.0 g/km
Fuel cons.: 0.0 g/t-km
Fuel cons.: 0.0 MJ/km
Fuel cons.: 0.0 MJ/t-km

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)

RCDA¹: 547.3 km
EAER³: 547.3 km
ZCER²: 547.3 km

Electric Ranges (end of life)

RCDA¹: 493.0 km
EAER³: 493.0 km
ZCER²: 493.0 km

Charge Sustaining Mode

Average Speed: 30.0 km/h

Fuel: H2 FC

Fuel cons.: 1033.3 g/km
Fuel cons.: 397.4 g/t-km
Fuel cons.: 124.0 MJ/km
Fuel cons.: 47.69 MJ/t-km

Electric Ranges

ZCER²: 29.0 km
Hydrogen range: 29.0 km

Mission Profile: Construction

Total Vehicle Mass: 12900 kg

Payload: 12900 kg

Charge Depleting Mode

Average Speed: 30.0 km/h

Fuel: H2 FC

Fuel cons.: 0.0 g/km
Fuel cons.: 0.0 g/t-km
Fuel cons.: 0.0 MJ/km
Fuel cons.: 0.0 MJ/t-km

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)

RCDA¹: 547.3 km
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ZCER²: 547.3 km

Electric Ranges (end of life)

RCDA¹: 493.0 km
EAER³: 493.0 km
ZCER²: 493.0 km

Charge Sustaining Mode

Average Speed: 30.0 km/h

Fuel: H2 FC

Fuel cons.: 1033.3 g/km
Fuel cons.: 80.10 g/t-km
Fuel cons.: 124.0 MJ/km
Fuel cons.: 9.612 MJ/t-km

Electric Ranges

ZCER²: 29.0 km
Hydrogen range: 29.0 km

Summary

Not applicable for OVC-FCHV

Application Information

VECTO Version: 5.0.8-DEV !!!NOT FOR CERTIFICATION!!
Date: 2025-12-17T15:22:44.7604607Z

Customer Information File Signature

Digest Value: fRNTeoEC97WcH18W30mAFrFipTvJ705vqzxC3m4gLT0=