

# All technical data A 180 d

## Summary

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Internal model series

W177

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Model variant number

A 180 d 177003

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Restriction code

0-809 Model year 2018

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No./arrangement of cylinders

L4

---

Transmission

automatic

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Displacement

1.461 cc

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Rated output<sup>1</sup>

85 [116]/4.000 kW [hp] at rpm

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Rated torque<sup>1</sup>

260/1.750 - 2.500 Nm at rpm

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Acceleration 0-100 km/h

10,5 s

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Top speed

202 km/h

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Front tyres/wheels

205/60 R 16

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Rear tyres/wheels

205/60 R 16

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Fuel

Diesel fuel

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Efficiency class ECE production vehicle (only valid for Germany)<sup>3</sup>

A

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Tank capacity/reserve

43/5,0 l

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Kerb weight/payload<sup>4</sup>

1.445/490 kg

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Gross vehicle weight

1.935 kg

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Perm. trailer load unbraked/braked [at 12%]/braked [at 8%]

720/1.400/1.600 kg

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## Vehicle identification - Descriptive data

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Market launch

2018-05

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Modification year and facelift

Modification year (Neuprojekt 2018 Staffel 1+2)

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Supply market<sup>5</sup>

ECE

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## Vehicle identification - Insurance classification

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Insurance category, fully comprehensive

22

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Insurance cat., 3rd party, fire & theft

22

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Insurance category, 3rd party

19

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## Engine and performance - Engine

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Engine series

OM608

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Engine variant

D15 SCR

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Combustion process

Diesel

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No./arrangement of cylinders

L4

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V angle

0,0 ° degrees

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Displacement

1.461 cc

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Bore

76,0 mm

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Stroke

80,5 mm

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Rated output<sup>1</sup>

85 [116]/4.000 kW [hp] at rpm

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Rated torque<sup>1</sup>

260/1.750 - 2.500 Nm at rpm

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Governed engine speed (maximum rpm)

4.950 rpm

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Compression ratio

15,1 : 1

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Engine - arrangement

front

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Engine - direction of installation

transverse, over axle

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## Engine and performance - Engine - Mixture formation

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Injection location

Cylinder direct

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Injection pump type

Common rail

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## Engine and performance - Engine - Valve timing

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Number of valves per cylinder

2

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## Engine and performance - Engine - Ignition

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Ignition system

Compression ignition

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## Engine and performance - Engine - Exhaust gas

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Emission class

Euro 6d-TEMP

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Exhaust gas aftertreatment  
Diesel-Ox.-Kat + SDPF + SCR-Kat

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Number of catalytic converters  
3

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Low-emission combustion measures  
Exhaust gas recirculation (EGR), cooled

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## Engine and performance - Engine - Electric motor (hybrid)

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Rated output (electric) (DIN,ECE,SAE)

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Engine speed at rated output (electric)

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Rated torque, electric motor

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Electr. energy consumption, NEDC, with wallbox

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Electr. energy consumption, NEDC (hybrid/BEV) acc. to ECE-R101

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Charging time (with 220-240 V charging voltage) for 100 km (NEDC) range

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Top speed in electric mode

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Power consumption, weighted

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Electric range<sup>6</sup>

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## Engine and performance - Performance - Acceleration

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Acceleration 0-100 km/h  
10,5 s

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## Engine and performance - Performance - Speeds

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Top speed

202 km/h

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## Engine and performance - Performance - Noise

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Exterior noise at standstill

77,1 dB-A

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Exterior noise when driving

70 dB-A

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## Engine and performance - Performance - Off-road characteristics

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Max. fording depth

k. A. mm

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Max. angle of approach/departure

k. A./k. A. ° degrees

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Maximum tilt angle

k. A. ° degrees

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Breakover angle at perm. GVW

9,4 ° degrees

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Breakover angle at perm. GVW (sports suspension)

8,4 ° degrees

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Slope climbing ability

k. A. %

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## Engine and performance - System performance

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Max. rated power system output

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Max. rated power system output

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RPM at rated power system output

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Max. torque at rated power system output

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RPM at torque system output

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## Fuel and emissions - Emission levels

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Combined CO<sub>2</sub> emissions<sup>2</sup>

118-108 g/km

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Carbon monoxide (CO) emissions, combined

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Hydrocarbon (HC) emissions, combined

- mg/km

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HC+NO<sub>x</sub> emissions, combined

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Nitrogen oxide (NO<sub>x</sub>) emissions, combined

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Particulate emissions

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## Fuel and emissions - Emission levels (secondary drive)

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Combined CO<sub>2</sub> emissions<sup>2</sup>

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Carbon monoxide (CO) emissions, combined

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Hydrocarbon (HC) emissions, combined

---

HC+NOx emissions, combined

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Nitrogen oxide (NOx) emissions, combined

---

Particulate emissions

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## Fuel and emissions - Fuel consumption

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Fuel

Diesel fuel

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Fuel consumption, urban<sup>2</sup>

5,2-4,5 l/100 km

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Fuel consumption, extra-urban<sup>2</sup>

4,0-3,9 l/100 km

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Fuel consumption, combined<sup>2</sup>

4,5-4,1 l/100 km

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Tank capacity/reserve

43/5,0 l

---

Efficiency class ECE production vehicle (only valid for Germany)<sup>3</sup>

A

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## Fuel and emissions - Fuel consumption (secondary drive)

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Fuel

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Fuel consumption, urban<sup>2</sup>

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Fuel consumption, extra-urban<sup>2</sup>

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Fuel consumption, combined<sup>2</sup>

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## Fuel and emissions - dependent on equipment code

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CO2 emissions, condition A<sup>7</sup>

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CO2 emissions, condition B<sup>8</sup>

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Fuel consumption, condition A<sup>7</sup>

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Fuel consumption, condition B<sup>8</sup>

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Power consumption, condition A<sup>7</sup>

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Power consumption, condition B<sup>8</sup>

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Power consumption, weighted

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## Power transmission - Drive

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Drive

Front-wheel drive

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All-wheel-drive torque distribution, front/rear

- %/%

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## Power transmission - Transmission

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Transmission

automatic

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Forward gears (total number)

7

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Transmission type designation

F-DCT 300 (7G-DCT automatic transmission)

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transmission type

3-shaft transmission

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Transmission control  
electrohydraulic

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## Power transmission - Ratio

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Gear ratios (1/2/3/4/5/6/7/8/9/R1/R2)  
16,44/9,76/5,92/4,02/3,11/2,52/2,02/-/-/R1 14,94/R2 -

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Axle drive ratio  
k. A.

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Axle drive ratio of 2nd shaft  
k. A.

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Gears on 2nd shaft  
k. A.

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Gears on 3rd shaft  
k. A.

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Gear ratio spread  
8,16

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## Chassis and steering - Steering

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Steering gear - type  
Rack-and-pinion

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Power steering  
Speed-dependent, Electrical power assisted

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Steering ratio (centred)  
15,4

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Steering wheel rim diameter  
375 mm

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## Chassis and steering - Chassis - Front axle

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Front suspension - type  
Independent suspension

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Front axle  
McPherson

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## Chassis and steering - Chassis - Rear axle

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Rear wheel suspension - type  
Semi-rigid axle

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Rear axle  
Torsion beam

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## Chassis and steering - Chassis - Springing

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Front/rear springs  
Coil spring, Double-tube gas-pressure/Coil spring, Single tube gas-pressure

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Front stabiliser bar, type  
Tubular torsion bar

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Stabiliser type, rear  
Tubular torsion bar

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## Chassis and steering - Chassis - Differential

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Differential, front  
Bevel gear

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Differential, centre  
without

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---

Differential, rear  
without

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Front interwheel differential lock  
no details

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Rear interwheel differential lock  
no details

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interaxle differential lock  
no details

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## Chassis and steering - Brakes

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Front brakes  
Discs, internally ventilated

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Rear brakes  
Discs, solid

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Brake callipers/brake shoes, front  
Sliding calliper

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Brake callipers/brake shoes, rear  
Sliding calliper

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Disc or drum diameter, front  
295 mm

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Disc or drum diameter, rear  
276 mm

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Brake disc ventilation  
Front axle

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Parking brake - operation  
Electric parking brake, automatic and manual

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parking brake - effect  
On rear wheels

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## Chassis and steering - Wheels and tyres

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Front wheel rim designation

6,5 J X 16

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Rear wheel rim designation

6,5 J X 16

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Front wheel offset

44 mm

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Rear wheel offset

44

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Tyre speed rating

V (up to 240 km/h)

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Front tyres/wheels

205/60 R 16

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Rear tyres/wheels

205/60 R 16

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## Body

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Design

Compact saloon

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Frontal area

2,19 m<sup>2</sup>

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Drag area

0,59 m<sup>2</sup>

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Cd value

0,27

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Number of doors (incl. tailgate)

4

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Seats (permitted number of)

5

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Roof opening time (Cabriolet)

- s

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## Electrical systems

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Charging time 20%-100% SOC (usable capacity) 3-phase (400 V/16 A)

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Charging time 20%-100% SOC (usable capacity) 3-phase (400 V/32 A)

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Charging time 20%-100% SOC (usable capacity) 1-phase (230 V/8 A)

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Charging time 20%-100% SOC (usable capacity) 1-phase (230 V/12 A)

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Charging time 20%-100% SOC (usable capacity) 1-phase (230 V/20 A)

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On-board electrical system voltage

14 V

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Generator/alternator - power output data

2.100 W

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Battery capacity (on-board electrical system)

80 Ah

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## Quantities, dimensions and weights - Dimensions - outside

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Vehicle length

4.419 mm

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Vehicle height, tailgate open

1.997 mm

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Vehicle height at kerb weight

1.440 mm

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Vehicle width

1.796 mm

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Vehicle width - front door open

2.839 mm

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Total width (including both outside mirrors)

1.992 mm

---

Overall width (outside mirrors folded in)

1.907 mm

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Wheelbase

2.729 mm

---

Turning circle diameter - kerb to kerb

10,50 M

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Track width, front

1.567 mm

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Track width, rear

1.547 mm

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Ground clearance at perm. GVW (absolute minimum)

104 mm

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Minimum width between the rear wheel arches

1.050 mm

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## Quantities, dimensions and weights - Dimensions - inside

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Boot capacity

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Open luggage compartment capacity behind driver's seat

830 l

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Closed luggage compartment capacity behind driver's seat

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Closed luggage compartment capacity behind rear seat

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Luggage compartment capacity (VDA)

360-1.200 l

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Open luggage compartment capacity behind 3rd seat row

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Min. open luggage compartment capacity behind rear seat

345 l

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Max. luggage capacity behind driver's seat

1.200 l

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Max. open luggage compartment capacity behind rear seat

415 l

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Boot capacity (VDA)<sup>9</sup>

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Boot capacity with roof folded down (Cabriolet)

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Open luggage compartment capacity behind rear seat

360 l

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Closed luggage compartment capacity - behind 3rd seat row

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Largest luggage compartment capacity behind rear seat

440 l

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Largest luggage compartment capacity behind 3rd seat row

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Luggage compartment length measured from 2nd seat row

541 mm

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Luggage compartment length measured from front seats

1.327 mm

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Luggage compartment floor length measured from 2nd seat row

822 mm

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Luggage compartment floor length measured from front seats

1.527 mm



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Maximum luggage compartment width

1.274 mm

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Maximum effective headroom for driver's seat

1.024 mm

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## Quantities, dimensions and weights - Filling capacities

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Fuel tank location

in front of rear axle

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Oil change quantity (with filter)

5,50 l

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Coolant capacity with heating

12,1 l

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## Quantities, dimensions and weights - Weights

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Gross vehicle weight

1.935 kg

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Kerb weight/payload<sup>4</sup>

1.445/490 kg

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## Quantities, dimensions and weights - Loads

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Front axle load (kerb weight [EC])

889 kg

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Permissible front axle load

1.064 kg

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Rear axle load (kerb weight [EC])

550 kg

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Permissible rear axle load

921 kg

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Permissible rear axle load (when towing a trailer)

1.000 kg

---

Maximum roof load

75 kg

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Permissible tongue weight

80 kg

---

Perm. trailer load unbraked/braked [at 12%]/braked [at 8%]

720/1.400/1.600 kg

---

## Fuel and emissions - WLTP NedcEec

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Electrical consumption (PER)<sup>2</sup>

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Electrical consumption, weighted (OVC-HEV)<sup>2</sup>

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Electr. Range<sup>2</sup>

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Fuel consumption, urban<sup>2</sup>

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Fuel consumption, extra-urban<sup>2</sup>

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Fuel consumption, combined<sup>2</sup>

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Fuel consumption, weighted (OVC-HEV)<sup>2</sup>

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Fuel consumption (gas), urban<sup>2</sup>

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Fuel consumption (gas), extra-urban<sup>2</sup>

---

Fuel consumption (gas), combined<sup>2</sup>

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## Fuel and emissions - WLTP Combustion and BiCombustion (Part1) NEDC

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CO<sub>2</sub> urban<sup>2</sup>

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CO<sub>2</sub> extra-urban<sup>2</sup>

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Combined CO<sub>2</sub> emissions<sup>2</sup>

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[WLTP] CO (NEDC)

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Non-methane hydrocarbons<sup>2</sup>

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Nitrogen oxides<sup>2</sup>

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Particulate matter<sup>2</sup>

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Particulate count<sup>2</sup>

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Total hydrocarbon<sup>2</sup>

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[WLTP] THC+NO<sub>x</sub> (NEDC)

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## Fuel and emissions - WLTP GasCombustion and BiCombustion (Part2) NEDC

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CO<sub>2</sub> urban<sup>2</sup>

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CO<sub>2</sub> extra-urban<sup>2</sup>

---

Combined CO<sub>2</sub> emissions<sup>2</sup>

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[WLTP] CO (NEDC)

---

Non-methane hydrocarbons<sup>2</sup>

---

Nitrogen oxides<sup>2</sup>

---

Particulate matter<sup>2</sup>

---

Particulate count<sup>2</sup>

---

Total hydrocarbon<sup>2</sup>

---

[WLTP] THC+NO<sub>x</sub> (NEDC)

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## Fuel and emissions - WLTP OvcHev and Fchv NEDC

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CO<sub>2</sub> weighted<sup>2</sup>

---

[WLTP] CO (NEDC)

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Non-methane hydrocarbons<sup>2</sup>

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Nitrogen oxides<sup>2</sup>

---

Particulate matter<sup>2</sup>

---

Particulate count<sup>2</sup>

---

Total hydrocarbon<sup>2</sup>

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[WLTP] THC+NO<sub>x</sub> (NEDC)

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## Fuel and emissions - WLTP Parameter NEDC

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Frontal area<sup>2</sup>

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Cd value<sup>2</sup>

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<sup>1</sup> Rated output and torque figures in accordance with Directive 80/1269/EEC in the currently applicable version.

<sup>2</sup> The figures shown were obtained in accordance with the prescribed measuring process. They are "NEDC CO<sub>2</sub> values" pursuant to Art. 2 No. 1 of Implementing Regulation (EU) 2017/1153. The fuel consumption figures have been calculated on the basis of these values. Electrical consumption has been determined on the basis of Directive 692/2008/EC.

<sup>3</sup> Established on the basis of measured CO<sub>2</sub> emissions, and taking the vehicle mass into account.

<sup>4</sup> Mass of the vehicle in running order with at least 90% full fuel tank, plus the mass of the driver (estimated by law at 75 kg), fuel and fluids, equipped with the standard equipment as specified by the manufacturer as well as, where applicable, the mass of the body, cab, trailer coupling and spare wheel(s) as well as tools. Optional extras, additional equipment and accessories can influence the weight, residual payload, rolling resistance, aerodynamics, etc. and therefore also affect the consumption/CO<sub>2</sub> values.

<sup>5</sup> In this case ECE refers to WEU. The data apply for the following countries: Belgium, Bulgaria, Denmark, Germany, Estonia, Finland, France, Greece, Great Britain, Ireland, Iceland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Austria, Poland, Portugal, Romania, Sweden, Switzerland, Slovak Republic, Slovenia, Spain, Czech Republik, Hungary, Cyprus (EU region)

<sup>6</sup> Under real-life driving conditions deviations may occur in comparison to the certified standard values. The actual values are influenced by a number of individual factors, such as personal driving style, environmental and route conditions.

<sup>7</sup> Condition A refers to: full NEFZ (city + highway) with fully charged batterie.

<sup>8</sup> Condition B refers to: full NEFZ (city + highway) with minimal charged batterie.

<sup>9</sup> Figures according to Directive 70/156/EEC, in the currently applicable version.