

# Technical specifications. BMW i3 50 xDrive as First Edition.



## BMW i3 50 xDrive as First Edition

### Vehicle Category

Drive type / body style Battery-electric vehicle (BEV) / Sports Activity Vehicle (SAV)

### Body

No. of doors / seats		4 / 5
Length/width/height (unladen)	mm	4760 / 1865 / 1480
Wheelbase	mm	2897
Track, front/rear	mm	1606 / 1613
Turning circle	m	12.2
Weight, unladen (DIN/EU)	kg	2205 / 2280
Max. load to DIN	kg	505
Max. permissible weight	kg	2710
Max. axle load, front/rear	kg	1260 / 1490
Max. trailer load, braked (12%/unbraked)	kg	1800 / 750
Max. roofload/towbar download	kg	75 / 75
Luggage comp. capacity	l	420
Additional storage comp. under bonnet	l	31
Air resistance	$c_x \times A$	0.21 x 2.35

### Power Unit

Drive concept		Electric all-wheel drive, coordinated transmission of the drive torque from two electric motors to the front and rear wheels respectively, as required
Max. output	kW/hp	345 / 469
Max. torque	Nm	645
Power-to-weight ratio	kg/kW	6.4
Type of transmission		Automatic transmission, single-speed

### Electric motors

Motor technology Sixth-generation BMW eDrive technology: electrically excited synchronous motor at the rear axle, asynchronous motor at the front axle, each sharing a housing with the power electronics and transmission; generator function for recuperating energy

#### Front Electric Motor

Motor designation		HF1002N0
Peak output to ECE R 85	kW/hp	123 / 167
at	rpm	4607
Max. torque	Nm	255
at	rpm	0 – 4607
Gear ratio	:1	8.801

#### Rear Electric Motor

Motor designation		HD1001N0
Peak output to ECE R 85	kW/hp	240 / 326
at	rpm	5500
Max. torque	Nm	435
at	rpm	0 – 5000
Gear ratio	:1	9.606

### High-voltage Battery

Storage technology		Lithium-ion
Installation		Underfloor
Voltage	V	698.9
Energy capacity, net	kWh	108.7
Charging time, 0 – 100 % charge		11h at 11 kW (16 A / 230 V, three-phase AC, wallbox)
Charging time, 0 – 100 % charge		5h 30m at 22 kW (32 A / 230 V, three-phase AC, wallbox)
Charging time, 10 – 80 % charge		21 min at 400 kW (800 V, DC, fast-charging station)
Additional range after 10 minutes of DC charging (max. charging rate) <sup>1)</sup>	km	320 – 423

### Charging

Max. charging rate		
AC, three-phase	kW	11.0 (optional: 22.0)
Max. charging rate		
DC	kW	400

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**Bidirectional Charging**

Vehicle-to-Load (optional), max. rate (AC)	kW	3.7
Vehicle-to-Home, max. rate (DC)	kW	11.0
Vehicle-to-Grid, max. rate (DC)	kW	11.0

**Driving Dynamics and Safety**

Suspension, front	Double-joint spring strut axle in lightweight aluminium-steel construction with torque arm and anti-roll bar. Trapezoidal shear panels forming connection between axle subframe, high-voltage battery and body	
Suspension, rear	Five-link axle in lightweight aluminium-steel construction with separately arranged springs and dampers	
Brakes, front	Vented disc brakes, with single-piston floating callipers	
Brake disc size	mm	370
Brakes, rear	Vented disc brakes, with single-piston floating callipers	
Brake disc size	mm	370
Driving stability systems	Standard: Heart of Joy integrated drivetrain and driving dynamics management, integrated braking system, DSC incl. ABS, ASC and DTC (Dynamic Traction Control), CBC (Cornering Brake Control), Dry Braking function, Fading Compensation, Start-Off Assistant, HDC (Hill Descent Control), trailer stability control	
Safety equipment	Standard: airbags for driver and front passenger, side airbags for driver and front passenger, interaction airbag between driver and front passenger, head airbags for front and rear seats, three-point inertia-reel seatbelts on all seats with belt tensioner and belt force limiter in the front, crash sensors, tyre pressure indicator	
Steering	Electric Power Steering (EPS) with Servotronic function	
Steering wheel turns (lock to lock)	2.7	
Tyres, front/rear	255/45 R 19 102 W/Y XL	
Rims, front/rear	8J x 19 light-alloy	

**Performance**

Acceleration 0–100 km/h	s	4.7
Top speed	km/h	200

**Consumption / Range (WLTP combined)**

Electric power consumption as per EnVKV	kWh/100 km	16.1 – 13.5
Attainable electric power cons. in individual configuration	kWh/100 km	16.1 – 13.5
Electric power consumption motorway <sup>2)</sup>	kWh/100 km	19.7 – 16.8
Range as per EnVKV	km	758 – 906
Attainable range in individual configuration	km	758 – 906

**Environmental Characteristics**

Pass-by noise	dB(A)	66
Emission rating	Electric vehicle	
CO <sub>2</sub> class(es) as per EnVKV	A	

Specifications apply to ACEA markets/data relevant to homologation applies in part only to Germany

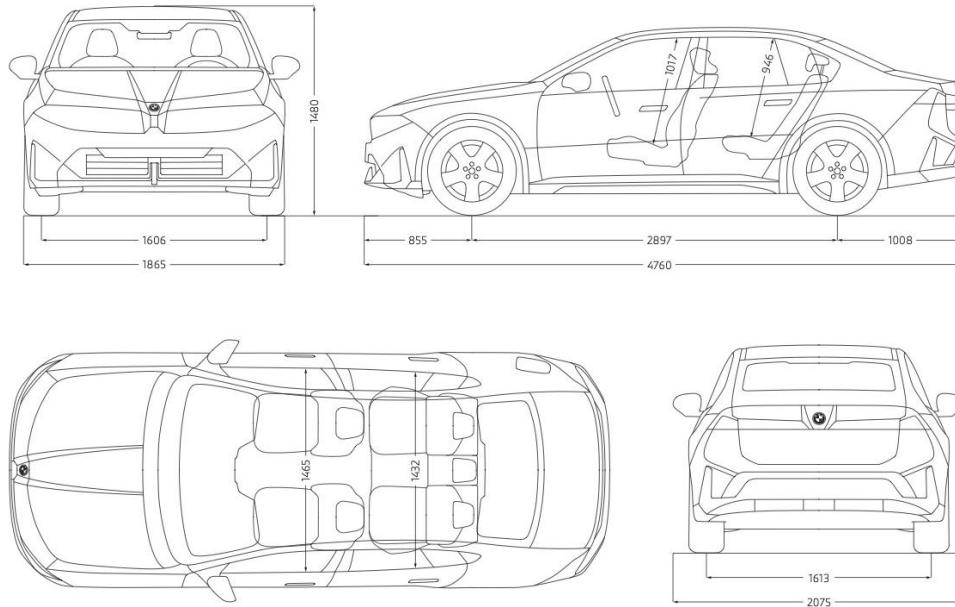
<sup>1)</sup> The extra range added after ten minutes of high-power charging was calculated in accordance with ISO 12906 based on the WLTP cycle. Both this and charging performance are dependent on vehicle equipment, the battery's charge level and age, battery temperature, the individual driving profile, use of auxiliary consumers, the ambient temperature and the charging station's available charging power.

<sup>2)</sup> Corresponds to WLTP Extra High

All of the stated equipment features, technical data and fuel/electric power consumption and emissions figures relate to the offering in the German market. The figures refer to a vehicle with basic configuration in Germany. These may vary depending on the wheel/tyre size and items of optional equipment selected.

Official electric power consumption and range figures were determined based on the prescribed WLTP measurement procedure and are in accordance with the Pkw-EnVKV. Further information can be found at [www.bmw.de](http://www.bmw.de)

# Exterior and interior dimensions. BMW i3 50 xDrive as First Edition.



The dimensions indicated in the technical drawing are in millimetres and may vary depending on the model and items of optional equipment fitted.