

Technical specifications.

BMW i4.



BMW i4 eDrive40

Vehicle Category

Drive type / body style Battery electric vehicle (BEV) / Gran Coupé

Body

No. of doors / seats		5 / 5
Length/width/height (unladen)	mm	4783 / 1852 / 1448
Wheelbase	mm	2856
Track, front/rear	mm	1601 / 1630
Ground clearance (unladen)	mm	125
Turning circle	m	12.5
Weight, unladen (DIN/EU)	kg	2050 / 2125
Weight distribution (unladen), front/rear	% / %	45.1 / 54.9
Max. load to DIN	kg	555
Max. permissible weight	kg	2605
Max. axle load, front/rear	kg	1140 / 1550
Max. trailer load, braked (12%)/unbraked	kg	1600 / 750
Max. roofload/towbar download	kg	75 / 75
Luggage comp. capacity	l	470 – 1290
Air resistance	$c_x \times A$	0.24 x 2.31

Power Unit

Drive concept	Electric drive, transmission of the electric motor's drive torque to the rear wheels	
Max. system output	kW/hp	250 / 340
Max. system torque	Nm	430
System power-to-weight ratio	kg/kW	8.2
Max. recuperation output	kW	116
Type of transmission	Automatic transmission, single-speed with fixed ratio	

Electric Motor

Motor technology	Fifth-generation BMW eDrive technology: electrically excited synchronous motor, power electronics and single-speed transmission sharing the same housing, generator function for recuperating energy	
Peak output to ECE R 85 at	kW/hp rpm	250 / 340 8.000-17.000
Continuous output to ECE R 85	kW/hp	xx / xx
Max. torque at	Nm rpm	430 0-5.000
Gear ratio	:1	8.774

High-voltage Battery

Storage technology	Lithium-ion	
Installation	Underfloor	
Voltage	V	398.5
Battery capacity	Ah	210.6
Energy capacity, gross	kWh	83.9
Energy capacity, net	kWh	80.7
Charging time, 0 – 100 % charge	< 8.5 h at 11 kW (16 A / 380 V, three-phase AC, Wallbox)	
Charging time, 10 – 80 % charge	31 min at 210 kW initially (DC, fast-charging station)	

Charging Unit

Type	Combined Charging Unit (CCU) with built-in 4 kW voltage transformer for supplying power to the 12V electrical system	
Max. charging rate AC, single-phase	kW	7.4
Max. charging rate AC, three-phase	kW	11.0
Max. charging rate DC	kW	210

BMW i4 eDrive40			
Driving Dynamics and Safety			
Suspension, front	Double-joint spring strut axle in lightweight aluminium-steel construction, hydraulically damped torque strut bearing		
Suspension, rear	Five-link axle in lightweight aluminium-steel construction; optional: air suspension with automatic self-levelling		
Brakes, front	Vented disc brakes, with four-piston fixed callipers		
Brakes, rear	Vented disc brakes, with single-piston floating callipers		
Driving stability systems	Standard: DSC incl. ABS, ASC and DTC (Dynamic Traction Control), ARB technology (near-actuator wheel slip limitation), CBC (Cornering Brake Control), DBC (Dynamic Brake Control), Dry Braking function, fading compensation, drive-off assistant, HDC (Hill Descent Control), trailer stability control, Performance Control; optional: adaptive M suspension		
Safety equipment	Standard: airbags for driver and front passenger, side airbags for driver and front passenger, head airbags for front and rear seats, three-point inertia-reel seatbelts on all seats with belt latch tensioner and belt force limiter in the front, crash sensors, tyre pressure indicator		
Steering	Electric Power Steering (EPS) with Servotronic function; optional: variable sport steering		
Steering ratio, overall	:1		15.5
Tyres, front/rear			225/55 R17 101Y XL
Rims, front/rear			7.5J x 17 light-alloy
Performance			
Acceleration	0–100 km/h	s	5.7
Acceleration	0–60 km/h	s	xx
Acceleration	80–120 km/h	s	xx
Top speed		km/h	190 (electronically limited)
Electric Power Consumption / Range			
Electric power consumption combined (WLTP)	kWh/100 km		20 – 16
Range (WLTP)		km	up to 590
Environmental Characteristics			
Emission rating			Electric vehicle
Carbon Life Cycle Assessment when using green power in the use phase compared to BMW xxxxxxx			–xx %
Carbon Life Cycle Assessment when using EU28 power mix in the use phase compared to BMW xxxxxxx			–xx %

Provisional specifications apply to ACEA markets/data relevant to homologation applies in part only to Germany (weight)

Official fuel consumption, CO₂ emissions, electric power consumption and electric range figures were determined based on the prescribed measurement procedure in accordance with European Regulation (EC) 2007/715 in the version applicable. They refer to vehicles in the German market. Where a range is shown, NEDC figures consider the different sizes of the selected wheels/tyres, while WLTP figures take into account the impact of any optional extras.

WLTP values are used for determining vehicle-related taxes or other duties based (at least inter alia) on CO₂ emissions as well as eligibility for any applicable vehicle-specific subsidies. Any NEDC values that are shown were calculated based on the new WLTP measurement procedure where appropriate and translated back into equivalent NEDC measurements in order to ensure comparability between the vehicles. Only official figures based on the WLTP procedure are available for new models that have been type tested since 01.01.2021. Further information on the WLTP and NEDC measurement procedures can also be found at www.bmw.de/wltp.

Further information on official fuel consumption figures and specific CO₂ emission values of new passenger cars is included in the following guideline: 'Leitfaden über den Kraftstoffverbrauch, die CO₂-Emissionen und den Stromverbrauch neuer Personenkraftwagen' (Guide to the fuel economy, CO₂ emissions and electric power consumption of new passenger cars), which can be obtained free of charge from all dealerships, from Deutsche Automobil Treuhand GmbH (DAT), Hellmuth-Hirth-Str. 1, 73760 Ostfildern-Scharnhausen and at <https://www.dat.de/co2/>.

BMW i4.

BMW i4 M50		
Vehicle Category		
Drive type / body style	Battery electric vehicle (BEV) / Gran Coupé	
Body		
No. of doors / seats	5 / 5	
Length/width/height (unladen)	mm	4783 / 1852 / 1448
Wheelbase	mm	2856
Track, front/rear	mm	1589 / 1606
Ground clearance (unladen)	mm	125
Turning circle	m	12.5
Weight, unladen (DIN/EU)	kg	2215 / 2290
Weight distribution (unladen), front/rear	% / %	48.1 / 51.9
Max. load to DIN	kg	520
Max. permissible weight	kg	2735
Max. axle load, front/rear	kg	1270 / 1550
Max. trailer load, braked (12%)/unbraked	kg	1600 / 750
Max. roofload/towbar download	kg	75 / 75
Luggage comp. capacity	l	470 – 1290
Air resistance	c _x x A	0.25 x 2.33
Power Unit		
Drive concept	Electric drive, coordinated on-demand transmission of the drive torque from two electric motors to front and rear wheels respectively	
Max. system output	kW/hp	400 / 544
Max. system torque	Nm	795
System power-to-weight ratio	kg/kW	6.3
Max. recuperation output	kW	195
Type of transmission	Automatic transmission, single-speed with fixed ratio	
Electric Motors		
Motor technology	Fifth-generation BMW eDrive technology: electrically excited synchronous motors each sharing the same housing with the power electronics and single-speed transmission, generator function for recuperating energy	
Front electric motor		
Peak output to ECE R 85	kW/hp	190 / 258
at	rpm	8.000-17.000
Continuous output to ECE R 85	kW/hp	xx / xx
Max. torque	Nm	xxx
at	rpm	0-5.000
Gear ratios	:1	x.yyy
Rear electric motor		
Peak output to ECE R 85	kW/hp	230 / 313
at	rpm	8.000-17.000
Continuous output to ECE R 85	kW/hp	xx / yy
Max. torque	Nm	xxx
at	rpm	0-5.000
Gear ratio	:1	x.yyy
High-voltage Battery		
Storage technology	Lithium-ion	
Installation	Underfloor	
Voltage	V	398.5
Battery capacity	Ah	210.6
Energy capacity, gross	kWh	83.9
Energy capacity, net	kWh	80.7
Charging time, 0 – 100 % charge	< 8.5 h at 11 kW (16 A / 380 V, three-phase AC, Wallbox)	
Charging time, 10 – 80 % charge	31 min at 210 kW initially (DC, fast-charging station)	
Charging Unit		
Type	Combined Charging Unit (CCU) with built-in 4 kW voltage transformer for supplying power to the 12V electrical system	
Max. charging rate AC, single-phase	kW	7.4
Max. charging rate AC, three-phase	kW	11.0
Max. charging rate DC	kW	210

BMW i4 M50			
Driving Dynamics and Safety			
Suspension, front	Double-joint spring strut axle in lightweight aluminium-steel construction, hydraulically damped torque strut bearing		
Suspension, rear	Five-link axle in lightweight aluminium-steel construction; optional: air suspension with automatic self-levelling		
Brakes, front	Vented disc brakes, with four-piston fixed callipers		
Brakes, rear	Vented disc brakes, with single-piston floating callipers		
Driving stability systems	Standard: DSC incl. ABS, ASC and DTC (Dynamic Traction Control), ARB technology (near-actuator wheel slip limitation), CBC (Cornering Brake Control), DBC (Dynamic Brake Control), Dry Braking function, fading compensation, drive-off assistant, HDC (Hill Descent Control), trailer stability control, Performance Control, adaptive M suspension		
Safety equipment	Standard: airbags for driver and front passenger, side airbags for driver and front passenger, head airbags for front and rear seats, three-point inertia-reel seatbelts on all seats with belt latch tensioner and belt force limiter in the front, crash sensors, tyre pressure indicator		
Steering	Electric Power Steering (EPS), variable sport steering with Servotronic function		
Steering ratio, overall	:1	14.1	
Tyres, front/rear	245/45 R18 100Y XL / 255/45 R18 103Y XL		
Rims, front/rear	8.5J x 18 light-alloy / 9J x 18 light-alloy		
Performance			
Acceleration	0–100 km/h	s	3.9
Acceleration	0–60 km/h	s	xx
Acceleration	80–120 km/h	s	xx
Top speed	km/h	225 (electronically limited)	
Electric Power Consumption / Range			
Electric power consumption combined (WLTP)	kWh/100 km	24 – 19	
Range (WLTP)	km	up to 510	
Environmental Characteristics			
Emission rating	Electric vehicle		
Carbon Life Cycle Assessment when using green power in the use phase compared to BMW xxxxxxx			–xx %
Carbon Life Cycle Assessment when using EU28 power mix in the use phase compared to BMW xxxxxxx			–xx %

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