

# Technical specifications. BMW 5 Series Sedan. i5 eDrive40.



BMW i5 eDrive40 Sedan		
<b>Vehicle category</b>		
Drive type / body variant	Battery Electric Vehicle - BEV / Sedan	
<b>Body</b>		
Number of doors/seats	4 / 5	
Length/width/height (empty)	mm	5060 / 1900 / 1515
Wheelbase	mm	2995
Track width, front/rear	mm	1680 / 1716
Turning circle	m	12.3
Turning circle with Integral Active Steering	m	11.7
Ground clearance, empty	mm	146
Vehicle curb weight (DIN/EU)	kg	2130 / 2205
Payload according to DIN	kg	610
Permitted total weight	kg	2740
Permitted axle loads, front/rear	kg	1275 / 1605
Permitted trailer load braked (12 %) / unbraked	kg	1500 / 750
Permitted roof load/permitted trailer nose weight	kg	75 / 80
Luggage compartment volume	l	490
Drag coefficient	$c_{x} \times A$	0.23 x 2.49
<b>Drive</b>		
Drive concept	Electric drive, transmission of the drive torque of the electric motor to the rear wheels, adaptive recuperation	
System performance	kW/hp	230 / 313
System performance in My Mode Sport	kW/hp	250 / 340
System torque	Nm	400 (430 <sup>1</sup> )
System power weight	kg/kW	8.5
Transmission type	Automatic transmission, single-stage with fixed ratio	
<b>Electric motor</b>		
Motor technology	Fifth-generation BMW eDrive technology: Current-excited synchronous machine, electric motor, power electronics and transmission each integrated in a common housing, generator function for recuperation	
Peak power according to ECE R 85	kW/hp	250 / 340
at motor speed	rpm	8000
max. torque	Nm	430 <sup>1</sup>
at engine speed	rpm	0 - 5000
Overall ratio	:1	11.115
<b>High voltage battery</b>		
Battery technology	Lithium-ion	
Installation location	Underbody	
Voltage	V	400
Net energy content	kWh	81.2
Charging time for 0 -100% charge	8.25 h at 11 kW (16 A / 230 V, AC three-phase, Flexible Fast Charger)	
Charging time for 10-80% charge	30 min at 205 kW (DC, fast charging station)	
Additional range after 10 minutes of DC charging (max. charging sp.)	km	156
<b>Charging unit</b>		
Type	Combined Charging Unit (CCU) with integrated 3.5-kW voltage converter for supplying the 12-volt electrical system	
max. charging power alternating current (AC) single- phase	kW	7.4 (EU, CN, KR among others) / 11.0 (US, JP)
max. charging power alternating current (AC) three- phase	kW	22.0
max. charging power direct current (DC)	kW	205

<b>BMW i5 eDrive40 Sedan</b>		
<b>Driving dynamics and safety</b>		
Front wheel suspension	Double wishbone axle in aluminium construction with separated lower control arm level; optional: electronically controlled shock absorbers	
Rear wheel suspension	Five-link axle in aluminium construction, double elastic mounting, air suspension with automatic self-levelling; optional: electronically controlled dampers	
Brakes, front	Four-piston, fixed-caliper disc brakes, ventilated	
Brakes, rear	Single-piston, floating-caliper disc brakes, ventilated	
Driving stability systems	Standard: DSC incl. ABS, ASC and DTC (Dynamic Traction Control), directly controlled wheel slip limitation, Cornering Brake Assist CBC, Brake Assist DBC, Dry Brake Function, Fade Compensation, Hill Start Control, Trailer Stability Control, Performance Control; optional: Active Roll Stabilisation	
Safety equipment	Standard: Airbags for driver and passenger, side airbags for driver and passenger, interaction airbag between driver and passenger, front and rear head airbags, 3-point automatic-reel belt on all seats, with seat belt stopper at front, seat belt tensioner and seat belt force limiter at the front and the outside rear seats, crash sensors, tyre pressure display	
Steering	Electrically assisted rack-and-pinion steering (EPS) with Servotronic function and variable steering ratio; optional: Integral Active Steering	
Overall steering ratio	:1	15.2
Tyres, front/rear	245/45 R19 102Y XL	
Wheel rims, front/rear	8.5J x 19 light alloy	
<b>Driving performance figures</b>		
Acceleration 0-100 km/h (62 mph)	s	6.0
Top speed	km/h	193 (120 mph) (electronically limited)
<b>Consumption / range</b>		
Power consumption combined (WLTP)	kWh/100 km (62 miles)	18.9 - 15.9
Power consumption combined (NEDC)	kWh/100 km (62 miles)	-
Range (WLTP)	km	497 - 582 (309 - 362 miles)
<b>Environmental features</b>		
Emission rating	Electric vehicle	
<b>Insurance rating</b>		
3rd party/fully comprehensive/3rd party fire + theft	2)	

Technical specifications valid for ACEA markets / registration-related data only relevant to Germany in some cases. All data on performance, consumption, emissions and range are provisional values.

1: When the Sport Boost or Launch Control function is activated

2: Data not yet available

Fuel consumption, CO<sub>2</sub> emission figures and power consumption as well as electric range are measured using the methods required according to Regulation VO (EC) 2007/715 as amended. This information is based on a vehicle with basic equipment in Germany; ranges take into account differences in wheel and tyre size selected as well as optional equipment.

All figures have already been calculated based on the new WLTP test cycle. WLTP values are used as a basis for the assessment of taxes and other vehicle-related levies that are (also) based on CO<sub>2</sub> emissions and, where applicable, for the purposes of vehicle-specific subsidies. Further information on the WLTP and NEDC measurement procedures is also available at [www.bmw.de/wltp](http://www.bmw.de/wltp) can be found.

For further details of the official fuel consumption figures and official specific CO<sub>2</sub> emissions of new cars, please refer to the "Manual on the fuel consumption, CO<sub>2</sub> emissions and power consumption of new cars", available at sales outlets free of charge, from Deutsche Automobil Treuhand GmbH (DAT), Hellmuth-Hirth-Str. 1, 73760 Ostfildern-Schornhausen and at <https://www.dat.de/co2/>.

# BMW 5 Series Sedan. i5 M60 xDrive.

<b>BMW i5 M60 xDrive Sedan</b>		
<b>Vehicle category</b>		
Drive type / body variant	Battery Electric Vehicle - BEV / Sedan	
<b>Body</b>		
Number of doors/seats	4 / 5	
Length/width/height (empty)	mm	5060 / 1900 / 1505
Wheelbase	mm	2995
Track width, front/rear	mm	1692 / 1716
Turning circle	m	11.9
Ground clearance, empty	mm	136
Vehicle curb weight (DIN/EU)	kg	2305 / 2380
Payload according to DIN	kg	590
Permitted total weight	kg	2895
Permitted axle loads, front/rear	kg	1430 / 1605
Permitted trailer load braked (12 %) / unbraked	kg	2000 / 750
Permitted roof load/permitted trailer nose weight	kg	75 / 80
Luggage compartment volume	l	490
Drag coefficient	$c_x \times A$	0.25 x 2.49
<b>Drive</b>		
Drive concept	Electric all-wheel drive, coordinated transmission of drive torque from one electric motor to the front and one to the rear wheels as needed, adaptive recuperation	
System performance	kW/hp	380 / 517
System performance in My Mode Sport	kW/hp	442 / 601
System torque	Nm	795 (820 $\bar{\cdot}$ )
System power weight	kg/kW	5.2
Transmission type	Automatic transmission, single-stage with fixed ratio	
<b>Electric motors</b>		
Motor technology	Fifth-generation BMW eDrive technology: Current-excited synchronous machines, electric motor, power electronics and transmission each integrated in a common housing, generator function for recuperation	
<b>Electric motor front</b>		
Peak power according to ECE R 85	kW/hp	192 / 261
at motor speed	rpm	8000
max. torque	Nm	365
at engine speed	rpm	0 - 5000
Overall ratio	:1	8.774
<b>Electric motor rear</b>		
Peak power according to ECE R 85	kW/hp	250 / 340
at engine speed	rpm	8000
Torque	Nm	430
at engine speed	rpm	0 - 5000
Overall ratio	:1	9.374
<b>High voltage battery</b>		
Battery technology	Lithium-ion	
Installation location	Underbody	
Voltage	V	400
Battery capacity:	Ah	211
Net energy content	kWh	81.2
Charging time for 0 -100% charge	8.25 h at 11 kW (16 A / 230 V, AC three-phase, Flexible Fast Charger)	
Charging time for 0 -100% charge	4.25 h at 22 kW (32 A / 230 V, AC three-phase, wallbox)	
Charging time for 10-80% charge	30 min at 205 kW (DC, fast charging station)	
Additional range after 10 minutes of DC charging (max. charging sp.)	km	156
<b>Charging unit</b>		
Type	Combined Charging Unit (CCU) with integrated 3.5-kW voltage converter for supplying the 12-volt electrical system	

<b>BMW i5 M60 xDrive Sedan</b>		
max. charging power alternating current (AC) single-phase	kW	7.4 (EU, CN, KR among others) / 11.0 (US, JP)
max. charging power alternating current (AC) three-phase	kW	22.0
max. charging power direct current (DC)	kW	205
<b>Driving dynamics and safety</b>		
Front wheel suspension	Double wishbone axle in aluminium construction with separated lower control arm level, electronically controlled shock absorbers	
Rear wheel suspension	Five-link axle in aluminium construction, double elastic mounting, air suspension with automatic self-levelling, electronically controlled dampers	
Brakes, front	Four-piston, fixed-caliper disc brakes, ventilated	
Brakes, rear	Single-piston, floating-caliper disc brakes, ventilated	
Driving stability systems	Standard: DSC incl. ABS, ASC and DTC (Dynamic Traction Control), directly controlled wheel slip limitation, Cornering Brake Assist CBC, Brake Assist DBC, Dry Brake Function, Fade Compensation, Hill Start Control, Trailer Stability Control, Performance Control, Active Roll Stabilisation	
Safety equipment	Standard: Airbags for driver and passenger, side airbags for driver and passenger, interaction airbag between driver and passenger, front and rear head airbags, 3-point automatic-reel belt on all seats, with seat belt stopper at front, seat belt tensioner and seat belt force limiter at the front and the outside rear seats, crash sensors, tyre pressure display	
Steering	Electrically assisted rack-and-pinion steering (EPS) with Servotronic function and variable steering ratio, Integral Active Steering	
Overall steering ratio	:1	15.7
Tyres, front/rear.	245/45 R19 102Y XL / 275/40 R19 105Y XL	
Wheel rims, front/rear	8.5J x 19 LM / 10J x 19 LM	
<b>Driving performance figures</b>		
Acceleration 0-100 km/h (62 mph)	s	3.8
Top speed	km/h	230 (143 mph) (electronically limited)
<b>Consumption / range</b>		
Power consumption combined (WLTP)	kWh/100 km (62 miles)	20.6 - 18.2
Power consumption combined (NEDC)	kWh/100 km (62 miles)	-
Range (WLTP)	km	455 - 516
<b>Environmental features</b>		
Emission rating	Electric vehicle	
<b>Insurance rating</b>		
3rd party/fully comprehensive/3rd party fire + theft	2)	

Technical specifications valid for ACEA markets / registration-related data only relevant to Germany in some cases. All data on performance, consumption, emissions and range are provisional values.

1: When the M Sport Boost or M Launch Control function is activated

2: Data not yet available

Fuel consumption, CO<sub>2</sub> emission figures and power consumption as well as electric range are measured using the methods required according to Regulation VQ (EC) 2007/715 as amended. This information is based on a vehicle with basic equipment in Germany; ranges take into account differences in wheel and tyre size selected as well as optional equipment.

All figures have already been calculated based on the new WLTP test cycle. WLTP values are used as a basis for the assessment of taxes and other vehicle-related levies that are (also) based on CO<sub>2</sub> emissions and, where applicable, for the purposes of vehicle-specific subsidies. Further information on the WLTP and NEDC measurement procedures is also available at [www.bmw.de/wltp](http://www.bmw.de/wltp) can be found.

For further details of the official fuel consumption figures and official specific CO<sub>2</sub> emissions of new cars, please refer to the "Manual on the fuel consumption, CO<sub>2</sub> emissions and power consumption of new cars", available at sales outlets free of charge, from Deutsche Automobil Treuhand GmbH (DAT), Hellmuth-Hirth-Str. 1, 73760 Ostfildern-Scharrhausen and at <https://www.dat.de/co2/>.

# BMW 5 Series Sedan. 520i.

BMW 520i Sedan		
<b>Body</b>		
Number of doors/seats		4 / 5
Length/width/height (empty)	mm	5060 / 1900 / 1515
Wheelbase	mm	2995
Track width, front/rear	mm	1680 / 1715
Turning circle	m	12.3
Turning circle with Integral Active Steering	m	11.7
Ground clearance, empty	mm	154
Fuel tank capacity	approx. l	60
Engine oil <sup>1)</sup>	l	<sup>3)</sup>
Unladen weight according to DIN/EU	kg	1725 / 1800
Payload according to DIN	kg	610
Permitted total weight	kg	2335
Permitted axle loads, front/rear	kg	1165 / 1320
Perm. trailer load (12%) braked/unbraked	kg	2000 / 750
Permitted roof load/permittted trailer nose weight	kg	75 / 100
Luggage compartment capacity	l	520
Drag coefficient	cx x A	0.24 x 2.46
<b>Drive</b>		
Engine technology		BMW TwinPower Turbo Technology: Turbocharger, direct injection High Precision Injection, fully variable valve control VALVETRONIC, variable camshaft control Double-VANOS, 48-volt mild hybrid technology with an electric motor integrated in the transmission
Power output / total <sup>2)</sup>	kW/hp	153 / 208
Torque / total <sup>2)</sup>	Nm	330 (243 lb-ft)
<b>Petrol engine</b>		
Type/no. of cylinders/valves		in-line / 4 / 4
Capacity, effective	cc	1998
Stroke/bore	mm	94.6 / 82.0
Compression	:1	11.6
Fuel		min RON 91
Nominal power output at engine speed	kW/hp rpm	140 / 190 4400 - 6500
Nominal torque at engine speed	Nm rpm	310 (229 lb-ft) 1500 - 4000
Power output per litre	kW/l	70.1
<b>Electric motor</b>		
Nominal power output	kW/hp	13 / 18
Nominal torque	Nm	200 (148 lb-ft)
<b>Electrical system</b>		
12 volt battery/installation location	Ah / -	70 / engine compartment
48 volt battery/installation location	Ah / -	20 / Luggage compartment
<b>Driving dynamics and safety</b>		
Front wheel suspension		Double wishbone axle in aluminium construction with separated lower control arm level; optional: electronically controlled shock absorbers
Rear wheel suspension		Five-link axle in aluminium construction, double elastic mounting; optional: electronically controlled dampers
Brakes, front		Four-piston, fixed-caliper disc brakes, ventilated
Brakes, rear		Single-piston, floating-caliper disc brakes, ventilated
Driving stability systems		Standard: DSC incl. ABS, ASC and DTC (Dynamic Traction Control), directly controlled wheel slip limitation, Cornering Brake Assist CBC, Brake Assist DBC, Dry Brake Function, Fade Compensation, Hill Start Control, Trailer Stability Control, Performance Control; optional: Active Roll Stabilisation
Safety equipment		Standard: Airbags for driver and passenger, side airbags for driver and passenger, interaction airbag between driver and passenger, front and rear head airbags, 3-point automatic-reel belt on all seats, with seat belt stopper at front, seat belt tensioner and seat belt force limiter at the front and the outside rear seats, crash sensors, tyre pressure display

<b>BMW 520i Sedan</b>			
<b>Steering</b>		Electrically assisted rack-and-pinion steering (EPS) with Servotronic function and variable steering ratio; optional: Integral Active Steering	
Overall steering ratio	:1	15.	
Tyres, front/rear	225/55 R18 102Y XL		
Wheel rims, front/rear	7.5J x 18 light alloy		
<b>Transmission</b>			
Transmission type		8-speed Steptronic transmission	
Gear ratio	I	:1	5.250
	II	:1	3.360
	III	:1	2.172
	IV	:1	1.720
	V	:1	1.316
	VI	:1	1.000
	VII	:1	0.822
	VIII	:1	0.640
	R	:1	3.712
Rear axle ratio	:1	3.077	
<b>Driving performance figures</b>			
Weight-to-power ratio (DIN)	kg/kW	11.3	
Acceleration 0-100 km/h (62 mph)	s	7.5	
Top speed	km/h	230 (143 mph)	
<b>BMW EfficientDynamics</b>			
BMW EfficientDynamics measures as standard		48-volt mild hybrid technology, Brake Energy Regeneration with recuperation indicator, Auto Start Stop function, Personal and Efficient modes with coasting function, Forward View Assist, Shift Point Display, electromechanical power steering, BMW EfficientLightweight, optimised aerodynamic properties, active air flap control, auxiliary units controlled according to demand, map-controlled oil pump, axle drive with optimised warm-up properties, tyres with reduced rolling resistance	
<b>Fuel consumption in EU cycle</b>			
total (WLTP)	l/100 km (62	6.4 - 5.7	
CO <sub>2</sub> (WLTP)	g/km	144 - 130	
total (NEDC)	l/100 km (62	-	
CO <sub>2</sub> (NEDC)	g/km	-	
Emission rating	Euro 6e		
<b>Insurance rating</b>			
3rd party/fullly	3)		

Technical specifications valid for ACEA markets / registration-related data only relevant to Germany in some cases. All mileage, consumption and emission figures are provisional.

1: Oil change amount

2: Is made up of combustion engine drive (stated nominal value) and electric drive (up to stated nominal value)

3: Data not yet available

Fuel consumption, CO<sub>2</sub> emission figures and power consumption as well as electric range are measured using the methods required according to Regulation VO (EC) 2007/715 as amended. This information is based on a vehicle with basic equipment in Germany; ranges take into account differences in wheel and tyre size selected as well as optional equipment.

All figures have already been calculated based on the new WLTP test cycle. WLTP values are used as a basis for the assessment of taxes and other vehicle-related levies that are (also) based on CO<sub>2</sub> emissions and, where applicable, for the purposes of vehicle-specific subsidies. Further information on the WLTP and NEDC measurement procedures is also available at [www.bmw.de/wltp](http://www.bmw.de/wltp) can be found.

For further details of the official fuel consumption figures and official specific CO<sub>2</sub> emissions of new cars, please refer to the "Manual on the fuel consumption, CO<sub>2</sub> emissions and power consumption of new cars", available at sales outlets free of charge, from Deutsche Automobil Treuhand GmbH (DAT), Hellmuth-Hirth-Str. 1, 73760 Ostfildern-Schornhausen and at <https://www.dat.de/co2/>.

# BMW 5 Series Sedan. 520d.

BMW 520d Sedan		
<b>Body</b>		
Number of doors/seats		4 / 5
Length/width/height (empty)	mm	5060 / 1900 / 1515
Wheelbase	mm	2995
Track width, front/rear	mm	1680 / 1715
Turning circle	m	12.3
Turning circle with Integral Active Steering	m	11.7
Ground clearance, empty	mm	154
Fuel tank capacity	approx. l	60
Engine oil <sup>1)</sup>	l	<sup>3)</sup>
Unladen weight according to DIN/EU	kg	1775 / 1850
Payload according to DIN	kg	630
Permitted total weight	kg	2405
Permitted axle loads, front/rear	kg	1165 / 1360
Perm. trailer load (12%) braked/unbraked	kg	2000 / 750
Permitted roof load/permittted trailer nose weight	kg	75 / 100
Luggage compartment capacity	l	520
Drag coefficient	cx x A	0.24 x 2.46
<b>Drive</b>		
Engine technology		BMW TwinPower Turbo Technology: Multi-stage turbocharging, high and low-pressure charger with variable inlet geometry, common-rail direct injection with solenoid valve injectors (max. injection pressure: 2500 bar), 48-volt mild hybrid technology
Power output / total <sup>2)</sup>	kW/hp	145 / 197
Torque / total <sup>2)</sup>	Nm	400 (295 lb-ft)
<b>Petrol engine</b>		
Type/no. of cylinders/valves		in-line / 4 / 4
Capacity, effective	cc	1995
Stroke/bore	mm	90.0 / 84.0
Compression	:1	16.5
Fuel		Diesel
Nominal power output at engine speed	kW/hp rpm	145 / 197 4000
Nominal torque at engine speed	Nm rpm	400 (295 lb-ft) 1500 - 2750
Power output per litre	kW/l	72.7
<b>Electric motor</b>		
Nominal power output	kW/hp	8 / 11
Nominal torque	Nm	25
<b>Electrical system</b>		
12 volt battery/installation location	Ah / -	70 / engine compartment
48 volt battery/installation location	Ah / -	20 / Luggage compartment
<b>Driving dynamics and safety</b>		
Front wheel suspension		Double wishbone axle in aluminium construction with separated lower control arm level; optional: electronically controlled shock absorbers
Rear wheel suspension		Five-link axle in aluminium construction, double elastic mounting; optional: electronically controlled dampers
Brakes, front		Four-piston, fixed-caliper disc brakes, ventilated
Brakes, rear		Single-piston, floating-caliper disc brakes, ventilated
Driving stability systems		Standard: DSC incl. ABS, ASC and DTC (Dynamic Traction Control), directly controlled wheel slip limitation, Cornering Brake Assist CBC, Brake Assist DBC, Dry Brake Function, Fade Compensation, Hill Start Control, Trailer Stability Control, Performance Control; optional: Active Roll Stabilisation
Safety equipment		Standard: Airbags for driver and passenger, side airbags for driver and passenger, interaction airbag between driver and passenger, front and rear head airbags, 3-point automatic-reel belt on all seats, with seat belt stopper at front, seat belt tensioner and seat belt force limiter at the front and the outside rear seats, crash sensors, tyre pressure display

<b>BMW 520d Sedan</b>		
<b>Steering</b>	<b>Electrically assisted rack-and-pinion steering (EPS) with Servotronic function and variable steering ratio; optional: Integral Active Steering</b>	
Overall steering ratio	:1	15.2
Tyres, front/rear.	225/55 R18 102Y XL	
Wheel rims, front/rear	7.5J x 18 light alloy	
<b>Transmission</b>		
Transmission type	8-speed Steptronic transmission	
Gear ratio	I	:1 5.250
	II	:1 3.360
	III	:1 2.172
	IV	:1 1.720
	V	:1 1.316
	VI	:1 1.000
	VII	:1 0.822
	VIII	:1 0.640
	R	:1 3.712
Rear axle ratio	:1	3.077
<b>Driving performance figures</b>		
Weight-to-power ratio (DIN)	kg/kW	12.2
Acceleration 0-100 km/h (62 mph)	s	7.3
Top speed	km/h	233 (145 mph)
<b>BMW EfficientDynamics</b>		
BMW EfficientDynamics measures as standard	Mild hybrid technology with 48-volt starter generator, brake energy recuperation with recuperation indicator, Auto Start Stop function, Personal and Efficient modes with coasting function, Forward View Assist, shift display, electromechanical power steering, BMW EfficientLightweight, optimised aerodynamic properties, active air flap control, auxiliary units controlled according to demand, map-controlled oil pump, efficiency and weight-optimised all-wheel drive, rear axle and transfer gearbox with optimised efficiency, tyres with reduced rolling resistance, BMW Blue Performance technology with SCR catalytic converter	
<b>Fuel consumption in EU cycle</b>		
total (WLTP)	l/100 km (62	5.6 - 5.1
CO <sub>2</sub> (WLTP)	g/km	147 - 133
total (NEDC)	l/100 km (62	-
CO <sub>2</sub> (NEDC)	g/km	-
<b>Emission rating</b>	<b>Euro 6e</b>	
<b>Insurance rating</b>		
3rd party/fully	3)	

Technical specifications valid for ACEA markets / registration-related data only relevant to Germany in some cases. All mileage, consumption and emission figures are provisional.

1: Oil change amount

2: Is made up of combustion engine drive (stated nominal value) and electric drive (up to stated nominal value)

3: Data not yet available

Fuel consumption, CO<sub>2</sub> emission figures and power consumption as well as electric range are measured using the methods required according to Regulation VO (EC) 2007/715 as amended. This information is based on a vehicle with basic equipment in Germany; ranges take into account differences in wheel and tyre size selected as well as optional equipment.

All figures have already been calculated based on the new WLTP test cycle. WLTP values are used as a basis for the assessment of taxes and other vehicle-related levies that are (also) based on CO<sub>2</sub> emissions and, where applicable, for the purposes of vehicle-specific subsidies. Further information on the WLTP and NEDC measurement procedures is also available at [www.bmw.de/wltp](http://www.bmw.de/wltp) can be found.

For further details of the official fuel consumption figures and official specific CO<sub>2</sub> emissions of new cars, please refer to the "Manual on the fuel consumption, CO<sub>2</sub> emissions and power consumption of new cars", available at sales outlets free of charge, from Deutsche Automobil Treuhand GmbH (DAT), Hellmuth-Hirth-Str. 1, 73760 Ostfildern-Schornhausen and at <https://www.dat.de/co2/>.



# BMW 5 Series Sedan. 520d xDrive.

BMW 520d xDrive Sedan		
<b>Body</b>		
Number of doors/seats		4 / 5
Length/width/height (empty)	mm	5060 / 1900 / 1515
Wheelbase	mm	2995
Track width, front/rear	mm	1680 / 1715
Turning circle	m	12.4
Turning circle with Integral Active Steering	m	11.8
<b>Steering</b>		
Ground clearance, empty	mm	154
Fuel tank capacity	approx. l	60
Engine oil <sup>1)</sup>	l	<sup>3)</sup>
Unladen weight according to DIN/EU	kg	1830 / 1905
Payload according to DIN	kg	630
Permitted total weight	kg	2460
Permitted axle loads, front/rear	kg	1210 / 1360
Perm. trailer load (12%) braked/unbraked	kg	2000 / 750
Permitted roof load/permittted trailer nose weight	kg	75 / 100
Luggage compartment capacity	l	520
Drag coefficient	cx x A	0.24 x 2.46
<b>Drive</b>		
Engine technology		BMW TwinPower Turbo Technology: Multi-stage turbocharging, high and low-pressure charger with variable inlet geometry, common-rail direct injection with solenoid valve injectors (max. injection pressure: 2500 bar), 48-volt mild hybrid technology
Power output / total <sup>2)</sup>	kW/hp	145 / 197
Torque / total <sup>2)</sup>	Nm	400 (295 lb-ft)
<b>Petrol engine</b>		
Type/no. of cylinders/valves		in-line / 4 / 4
Capacity, effective	cc	1995
Stroke/bore	mm	90.0 / 84.0
Compression	:1	16.5
Fuel		Diesel
Nominal power output at engine speed	kW/hp rpm	145 / 197 4000
Nominal torque at engine speed	Nm rpm	400 (295 lb-ft) 1500 - 2750
Power output per litre	kW/l	72.7
<b>Electric motor</b>		
Nominal power output	kW/hp	8 / 11
Nominal torque	Nm	25 (18 lb-ft)
<b>Electrical system</b>		
12 volt battery/installation location	Ah / -	70 / engine compartment
48 volt battery/installation location	Ah / -	20 / Luggage compartment
<b>Driving dynamics and safety</b>		
Front wheel suspension		Double wishbone axle in aluminium construction with separated lower control arm level; optional: electronically controlled shock absorbers
Rear wheel suspension		Five-link axle in aluminium construction, double elastic mounting; optional: electronically controlled dampers
Brakes, front		Four-piston, fixed-caliper disc brakes, ventilated
Brakes, rear		Single-piston, floating-caliper disc brakes, ventilated
Driving stability systems		Standard: DSC incl. ABS, ASC and DTC (Dynamic Traction Control), directly controlled wheel slip limitation, Cornering Brake Assist CBC, Brake Assist DBC, Dry Brake Function, Fade Compensation, Hill Start Control, Trailer Stability Control, Performance Control; optional, DSC linked with xDrive all-wheel drive; optional: Active Roll Stabilisation
Safety equipment		Standard: Airbags for driver and passenger, side airbags for driver and passenger, interaction airbag between driver and passenger, front and rear head airbags, 3-point automatic-reel belt on all seats, with seat belt stopper at front, seat belt tensioner and seat belt force limiter at the front and the outside rear seats, crash sensors, tyre pressure display

<b>BMW 520d xDrive Sedan</b>		
<b>Steering</b>	Electrically assisted rack-and-pinion steering (EPS) with Servotronic function and variable steering ratio; optional: Integral Active Steering	
Overall steering ratio	:1	15.7
Tyres, front/rear	225/55 R18 102Y XL	
Wheel rims, front/rear	7.5J × 18 light alloy	
<b>Transmission</b>		
Transmission type	8-speed Steptronic transmission	
Gear ratio	I	:1 5.250
	II	:1 3.360
	III	:1 2.172
	IV	:1 1.720
	V	:1 1.316
	VI	:1 1.000
	VII	:1 0.822
	VIII	:1 0.640
	R	:1 3.712
Rear axle ratio	:1	3.077
<b>Driving performance figures</b>		
Weight-to-power ratio (DIN)	kg/kW	12.6
Acceleration 0-100 km/h (62 mph)	s	7.3
Top speed	km/h	228
<b>BMW EfficientDynamics</b>		
BMW EfficientDynamics measures as standard	Mild hybrid technology with 48-volt starter generator, brake energy recuperation with recuperation indicator, Auto Start Stop function, Personal and Efficient modes with coasting function, Forward View Assist, shift display, electromechanical power steering, BMW EfficientLightweight, optimised aerodynamic properties, active air flap control, auxiliary units controlled according to demand, map-controlled oil pump, efficiency and weight-optimised all-wheel drive, efficiency-optimised all-wheel drive, rear axle and transfer gearbox with optimised efficiency, tyres with reduced rolling resistance, BMW Blue Performance technology with SCR catalytic converter	
<b>Fuel consumption in EU cycle</b>		
total (WLTP)	l/100 km (62	6.0 - 5.5
CO <sub>2</sub> (WLTP)	g/km	157 - 143
total (NEDC)	l/100 km (62	-
CO <sub>2</sub> (NEDC)	g/km	-
<b>Emission rating</b>	<b>Euro 6e</b>	
<b>Insurance rating</b>		
3rd party/fully	3)	

Technical specifications valid for ACEA markets / registration-related data only relevant to Germany in some cases. All mileage, consumption and emission figures are provisional.

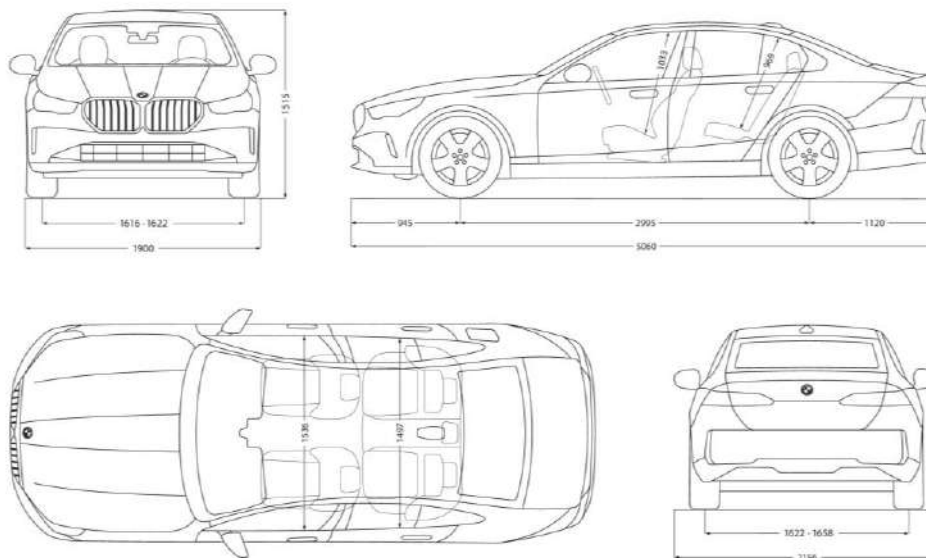
- 1: Oil change amount  
2: Is made up of combustion engine drive (stated nominal value) and electric drive (up to stated nominal value)  
3: Data not yet available

Fuel consumption, CO<sub>2</sub> emission figures and power consumption as well as electric range are measured using the methods required according to Regulation VO (EC) 2007/715 as amended. This information is based on a vehicle with basic equipment in Germany; ranges take into account differences in wheel and tyre size selected as well as optional equipment.

All figures have already been calculated based on the new WLTP test cycle. WLTP values are used as a basis for the assessment of taxes and other vehicle-related levies that are (also) based on CO<sub>2</sub> emissions and, where applicable, for the purposes of vehicle-specific subsidies. Further information on the WLTP and NEDC measurement procedures is also available at [www.bmw.de/wltp](http://www.bmw.de/wltp) can be found.

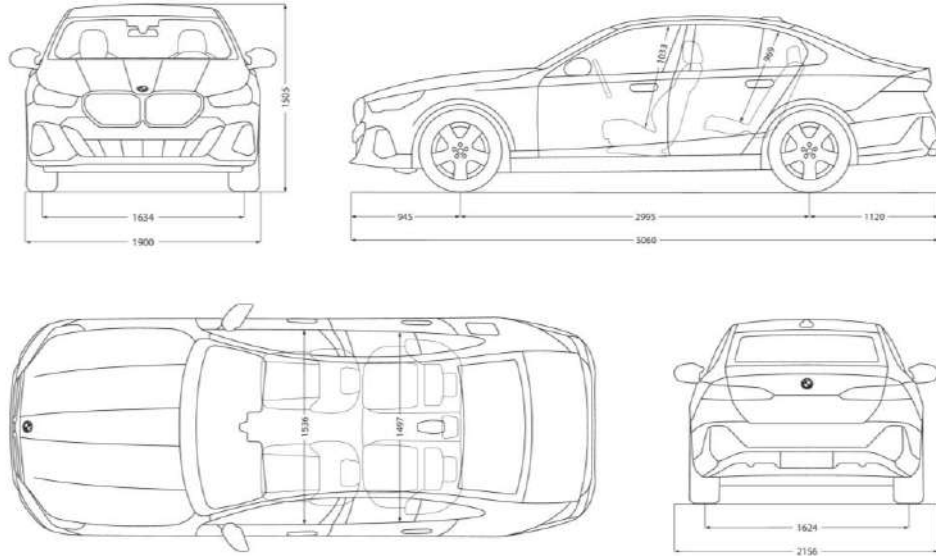
For further details of the official fuel consumption figures and official specific CO<sub>2</sub> emissions of new cars, please refer to the "Manual on the fuel consumption, CO<sub>2</sub> emissions and power consumption of new cars", available at sales outlets free of charge, from Deutsche Automobil Treuhand GmbH (DAT), Hellmuth-Hirth-Str. 1, 73760 Ostfildern-Schornhausen and at <https://www.dat.de/co2/>.

# Exterior and interior dimensions. BMW 5 Series Sedan. i5 eDrive40.



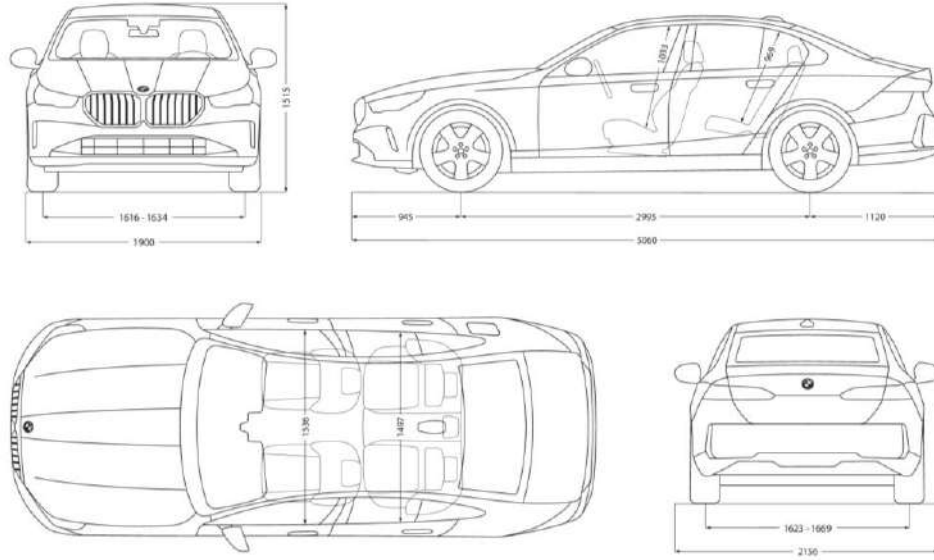
The dimensions in the technical drawing are in millimetres and may vary depending on the model and the optional equipment.

# BMW 5 Series Sedan. i5 M60 xDrive.



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

# BMW 5 Series Sedan. 520i.



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