

# Technical specifications.

## BMW 5 Series Sedan.

### 530e.



<b>BMW 530e Sedan</b>		
<b>Body</b>		
No. of doors / seats		4 / 5
Length/width/height (unladen)	mm	5060 / 1900 / 1515
Wheelbase	mm	2995
Track, front/rear	mm	1680 / 1716
Ground clearance	mm	146
Turning circle	m	12.3
Fuel tank capacity	approx. l	60
Weight, unladen, to DIN/EU	kg	2005 / 2080
Max. load to DIN	kg	650
Max. permissible weight	kg	2655
Max. axle load, front/rear	kg	1275 / 1510
Max. trailer load braked (12%/unbraked)	kg	1800 / 750
Max. roofload/towbar download	kg	75 / 100
Luggage comp. capacity	l	520
Air resistance	cx x A	0.24 x 2.46
<b>Drive system</b>		
Drive concept		Full-hybrid drive system, drive torque sent by one or both motors to rear wheels
System output <sup>1)</sup>	kW/hp	220 / 299
System torque <sup>1)</sup>	Nm	450
System power-to-weight ratio (DIN)	kg/kW	9.1
<b>Combustion engine</b>		
Config./No. of cyls./valves		In-line / 4 / 4
Engine technology		BMW TwinPower Turbo technology: turbocharger, High Precision Injection, VALVETRONIC fully variable valve timing, Double-VANOS variable camshaft timing
Effective capacity	cc	1998
Stroke/bore	mm	94.6 / 82.0
Compression ratio	:1	11.6
Fuel		min. RON 91
Nominal power	kW/hp	140 / 190
at	rpm	4400 – 6500
Nominal torque	Nm	310
at	rpm	1500 – 4000
Output per litre	kW/l	70.1
<b>Electric motor</b>		
Engine technology		BMW eDrive technology: synchronous electric motor with pre-gearing stage integrated into eight-speed Steptronic transmission, generator function for recuperating energy for the high-voltage battery
Nominal power	kW/hp	135 / 184
at	rpm	7000
Nominal torque	Nm	250
at	rpm	100 – 5500
Effective torque through pre-gearing stage	Nm	450
<b>High-voltage battery</b>		
Storage technology / installation		Lithium-ion / underfloor
Voltage	V	348
Capacity (gross / net)	kWh	22.1 / 18.7
Charging time for 0 – 100 % charge		3.25 h at 7.4 kW (32 A / 230 V / 1ph.)
<b>Transmission</b>		
Type of transmission		Eight-speed Steptronic transmission
Gear ratios	I :1	5.000
	II :1	3.520
	III :1	2.200
	IV :1	1.720
	V :1	1.301
	VI :1	1.000
	VII :1	0.833
	VIII :1	0.640
	R :1	4.543

<b>BMW 530e Sedan</b>			
<b>Driving Dynamics and Safety</b>			
Suspension, front	Double wishbone axle in aluminium construction with separated lower control arm level; optional: electronically controlled dampers		
Suspension, rear	Five-link axle in aluminium construction, double elastic mounting; optional: electronically controlled dampers		
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, 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	Electric Power Steering (EPS) with Servotronic function and variable steering ratio; optional: Integral Active Steering		
Steering ratio, overall	:1		15.2
Tyres, front/rear			245/45 R19 102Y XL
Rims, front/rear			8.5J x 19 light-alloy
<b>Performance</b>			
Acceleration 0–100 km/h	s		6.3
Top speed	km/h		230
Top speed electric	km/h		140
Electric range (WLTP)	km		93 – 103
<b>BMW EfficientDynamics</b>			
BMW EfficientDynamics standard features	BMW eDrive technology, adaptive Brake Energy Regeneration with recuperation display, Electric Power Steering, hybrid-specific Auto Start Stop function, Optimum Shift Indicator, PERSONAL and EFFICIENT mode with coasting function, Proactive Driving Assistant, BMW EfficientLightweight, optimised aerodynamic attributes, active air flap control, on-demand operation of ancillary units, map-regulated oil pump, differential with optimised warm-up behaviour, tyres with reduced rolling resistance		
<b>Fuel Consumption ECE</b>			
Fuel consumption.			
weighted combined (WLTP)	l/100 km		0.8 – 0.6
Fuel consumption.			
weighted combined (NEDC)	l/100 km		–
CO <sub>2</sub> -emissions from fuel (WLTP)	g/km		17 – 13
CO <sub>2</sub> -emissions from fuel (NEDC)	g/km		–
Electric power consumption			
weighted combined (WLTP)	kWh/100 km		21.7 – 19.9
Electric power consumption			
weighted combined (NEDC)	kWh/100 km		–
Emission rating			Euro 6e

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

<sup>1)</sup> Developed by the combination of the combustion engine (stated nominal figure) and the electric motor (up to stated nominal figure)

Official fuel consumption, CO<sub>2</sub> 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. Where a range is shown, the WLTP figures take into account the impact of any optional extras.

Only official figures based on the WLTP procedure are available for new models that have been type tested since 01.01.2021. In addition, according to EU Regulation 2022/195, the NEDC values will no longer be included in the EC certificates of conformity as of 01.01.2023. Further information on the WLTP and NEDC measurement procedures can also be found at [www.bmw.de/wltp](http://www.bmw.de/wltp).

Further information on official fuel consumption figures and specific CO<sub>2</sub> emission values of new passenger cars is included in the following guideline: 'Leitfaden über den Kraftstoffverbrauch, die CO<sub>2</sub>-Emissionen und den Stromverbrauch neuer Personenkraftwagen' (Guide to the fuel economy, CO<sub>2</sub> 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 5 Series Sedan. 550e xDrive.

<b>BMW 550e xDrive Sedan</b>		
<b>Body</b>		
No. of doors / seats		4 / 5
Length/width/height (unladen)	mm	5060 / 1900 / 1515
Wheelbase	mm	2995
Track, front/rear	mm	1680 / 1716
Ground clearance	mm	146
Turning circle	m	11.8
Fuel tank capacity	approx. l	60
Weight, unladen, to DIN/EU	kg	2155 / 2230
Max. load to DIN	kg	650
Max. permissible weight	kg	2805
Max. axle load, front/rear	kg	1380 / 1525
Max. trailer load braked (12%/unbraked)	kg	2000 / 750
Max. roofload/towbar download	kg	75 / 100
Luggage comp. capacity	l	520
Air resistance	cx x A	0.24 x 2.46
<b>Drive system</b>		
Drive concept		Full-hybrid drive system, drive torque sent by one or both motors to all four wheels via BMW xDrive
System output <sup>1)</sup>	kW/hp	360 / 489
System torque <sup>1)</sup>	Nm	700
System power-to-weight ratio (DIN)	kg/kW	6.0
<b>Combustion engine</b>		
Config./No. of cyls./valves		In-line / 6 / 4
Engine technology		M TwinPower Turbo technology: turbocharger, High Precision Injection, VALVETRONIC fully variable valve timing, Double-VANOS variable camshaft timing
Effective capacity	cc	2998
Stroke/bore	mm	94.6 / 82.0
Compression ratio	:1	11.0
Fuel		min. RON 91
Nominal power	kW/hp	230 / 313
at	rpm	5000 – 6500
Nominal torque	Nm	450
at	rpm	1750 – 4700
Output per litre	kW/l	76.7
<b>Electric motor</b>		
Engine technology		BMW eDrive technology: synchronous electric motor with pre-gearing stage integrated into eight-speed Steptronic transmission, generator function for recuperating energy for the high-voltage battery
Nominal power	kW/hp	145 / 197
at	rpm	7000
Nominal torque	Nm	280
at	rpm	100 – 5500
Effective torque through pre-gearing stage	Nm	450
<b>High-voltage battery</b>		
Storage technology / installation		Lithium-ion / underfloor
Voltage	V	348
Capacity (gross / net)	kWh	22.1 / 18.7
Charging time for 0 – 100 % charge		3.25 h at 7.4 kW (32 A / 230 V / 1ph.)
<b>Transmission</b>		
Type of transmission		Eight-speed Steptronic transmission
Gear ratios	I :1	5.000
	II :1	3.520
	III :1	2.200
	IV :1	1.720
	V :1	1.301
	VI :1	1.000
	VII :1	0.833
	VIII :1	0.640
	R :1	4.543

<b>BMW 550e xDrive Sedan</b>		
<b>Driving Dynamics and Safety</b>		
Suspension, front	Double wishbone axle in aluminium construction with separated lower control arm level, electronically controlled dampers	
Suspension, rear	Five-link axle in aluminium construction, double elastic mounting, electronically controlled dampers	
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, trailer stability control, Performance Control, DSC networked with xDrive all-wheel-drive system; 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	Electric Power Steering (EPS) with Servotronic function and variable steering ratio, Integral Active Steering	
Steering ratio, overall	:1	15.7
Tyres, front/rear	245/45 R19 102Y XL	
Rims, front/rear	8.5J x 19 light-alloy	
<b>Performance</b>		
Acceleration 0–100 km/h	s	4.3
Top speed	km/h	250
Top speed electric	km/h	140
Electric range (WLTP)	km	83 – 90
<b>BMW EfficientDynamics</b>		
BMW EfficientDynamics standard features	BMW eDrive technology, adaptive Brake Energy Regeneration with recuperation display, Electric Power Steering, hybrid-specific Auto Start Stop function, Optimum Shift Indicator, PERSONAL and EFFICIENT mode with coasting function, Proactive Driving Assistant, BMW EfficientLightweight, optimised aerodynamic attributes, active air flap control, on-demand operation of ancillary units, map-regulated oil pump, efficiency-optimised all-wheel drive, differential with optimised warm-up behaviour, tyres with reduced rolling resistance	
<b>Fuel Consumption ECE</b>		
Fuel consumption, weighted combined (WLTP)	l/100 km	1.0 – 0.8
Fuel consumption, weighted combined (NEDC)	l/100 km	–
CO <sub>2</sub> -emissions from fuel (WLTP)	g/km	23 – 19
CO <sub>2</sub> -emissions from fuel (NEDC)	g/km	–
Electric power consumption, weighted combined (WLTP)	kWh/100 km	23.2 – 21.6
Electric power consumption, weighted combined (NEDC)	kWh/100 km	–
Emission rating	Euro 6e	

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

<sup>1)</sup> Developed by the combination of the combustion engine (stated nominal figure) and the electric motor (up to stated nominal figure)

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