

Technical specifications.

BMW 5 Series Sedan: 530e.



BMW 530e Sedan		
Body		
Number of doors/seats		4 / 5
Length/width/height ¹⁾ (empty)	mm	4936 / 1868 / 1483
Wheelbase	mm	2975
Track width, front/rear	mm	1604 / 1631
Ground clearance	mm	150
Turning circle	m	12.0
Fuel tank capacity	approx. l	46
Engine oil ²⁾	l	5.25
Unladen weight according to DIN/EU	kg	1770 / 1845
Payload according to DIN	kg	650
Permitted total weight	kg	2420
Permitted axle loads, front/rear	kg	1120 / 1405
Permitted roof load/permited download	kg	100 / –
Luggage compartment capacity	l	410
Drag coefficient	cx x A	0.25 x 2.35
Powertrain		
Drive concept		Full hybrid drive, transmission of engine torque of one or both motors to the rear wheels
System performance	kW/hp	185 / 252
System torque	Nm	420
System weight-to-power ratio (DIN)	kg/kW	9.6
Petrol engine		
Type/no. of cylinders/valves		R / 4 / 4
Engine technology		BMW TwinPower Turbo Technology: Twin-scroll turbocharger, direct fuel injection: High Precision Injection, fully variable valve control (VALVETRONIC), Double VANOS variable camshaft control
Capacity, effective	cc	1998
Stroke/bore	mm	94.6 / 82.0
Compression	:1	11.0
Fuel		min RON 91
Output	kW/hp	135 / 184
at engine speed	rpm	5000 – 6500
Torque	Nm	290
at engine speed	rpm	1350 – 4250
Power output per litre	kW/l	67.6
Electric motor		
Motor technology		BMW eDrive Technology: Synchronous electric motor integrated into 8-speed Steptronic transmission, generator function for recuperating energy for the high-voltage storage system
Top performance	kW/hp	83 / 113
at motor speed	rpm	3170
Torque	Nm	265
at motor speed	rpm	0 – 3170
Recuperation performance	kW	20
High voltage storage system		
Storage system technology / installation location		Lithium ion / under rear seat
Voltage	V	354
Energy capacity (gross)	kWh	12.0
Charging time for 100% charge		3.6 h at 3.7 kW (16 A / 230 V)

BMW 530e Sedan

Driving dynamics and safety

Front wheel suspension	Double wishbone front axle with structurally separated lower link level in aluminium, small steering roll radius, lateral force balancing, brake nod reduction
Rear wheel suspension	Aluminium five-link rear axle
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), Cornering Brake Control CBC, brake assistant DBC, brake dry function, Fading Brake Support, Hill Start Control; optional: Variable Damper Control
Safety equipment	Standard: Airbags for driver and passenger, side airbags for 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, crash-active front headrests, crash sensors, tyre pressure display
Steering	Electromechanical power steering (EPS) with Servotronic function
Overall steering ratio	:1 16.3
Tyres, front/rear.	225/55 R17 97Y
Wheel rims, front/rear.	7.5J × 17 light alloy

Transmission

Transmission type	8-speed Steptronic transmission		
Gear ratio	I	:1	4.714
	II	:1	3.143
	III	:1	2.106
	IV	:1	1.667
	V	:1	1.285
	VI	:1	1.000
	VII	:1	0.839
	VIII	:1	0.667
	E	:1	3.317
Rear axle ratio		:1	3.231

Driving performance figures

Acceleration	0-100 km/h	s	6.1
Top speed		km/h	235
Maximum speed electric:		km/h	140
Electric range		km	61 – 66

BMW EfficientDynamics

BMW EfficientDynamics measures as standard	BMW eDrive technology, electromechanical power steering, hybrid specific Auto Start Stop function, shift point display, ECO PRO model with coasting function and proactive driving assistant, BMW EfficientLightweight, optimised aerodynamic properties, active air flap control, needs-based control of ancillary components, map-controlled oil pump, electric air-conditioning compressor, rear axle transfer gearbox with optimised efficiency, tyres with reduced rolling resistance
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Fuel consumption in EU cycle

Combined fuel consumption	l/100 km	1.8 – 1.6
CO ₂ emissions from fuel	g/km	41 – 36
Combined power consumption	kWh/100 km	14.5 – 13.6
Emission rating		Euro 6d-TEMP

Insurance rating

3rd party/fully comprehensive/3rd party fire + theft	18 / 27 / 27
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Technical specifications valid for ACEA markets / registration-related data only relevant to Germany in some cases (weights)

- ¹⁾ Height including roof fin
²⁾ Oil change amount

Fuel consumption, CO₂ emission figures and power consumption were measured using the methods required according to Regulation VO (EC) 2007/715 as amended. The figures are calculated using a vehicle fitted with basic equipment in Germany, the ranges stated take into account differences in selected wheel and tyre sizes as well as the optional equipment. They may change during configuration.

The figures have already been calculated based on the new WLTP test cycle and adapted to NEDC for comparison purposes. In these vehicles, different figures than those published here may apply for the assessment of taxes and other vehicle-related duties which are (also) based on CO₂ emissions.

For further details of the official fuel consumption figures and official specific CO₂ emissions of new cars, please refer to the "Manual on fuel consumption, CO₂ emissions and power consumption of new cars", available at sales outlets, from Deutsche Automobil Treuhand GmbH (DAT), Hellmuth-Hirth-Str. 1, 73760 Ostfildern-Scharnhausen and at <https://www.dat.de/co2/> free of charge.

BMW 5 Series Sedan. 530e xDrive.

BMW 530e xDrive Sedan		
Body		
Number of doors/seats		4 / 5
Length/width/height ¹⁾ (empty)	mm	4936 / 1868 / 1483
Wheelbase	mm	2975
Track width, front/rear	mm	1604 / 1631
Ground clearance	mm	146
Turning circle	m	12.2
Fuel tank capacity	approx. l	46
Engine oil ²⁾	l	5.25
Unladen weight according to DIN/EU	kg	1860 / 1935
Payload according to DIN	kg	640
Permitted total weight	kg	2500
Permitted axle loads, front/rear	kg	1170 / 1420
Permitted roof load/permited download	kg	100 / –
Luggage compartment capacity	l	410
Drag coefficient	cx x A	0.26 x 2.35
Powertrain		
Drive concept		Full hybrid drive, transmission of engine torque of one or both motors to all four wheels via BMW xDrive
System performance	kW/hp	185 / 252
System torque	Nm	420
System weight-to-power ratio (DIN)	kg/kW	10.1
Petrol engine		
Type/no. of cylinders/valves		R / 4 / 4
Engine technology		BMW TwinPower Turbo Technology: Twin-scroll turbocharger, direct fuel injection: High Precision Injection, fully variable valve control (VALVETRONIC), Double VANOS variable camshaft control
Capacity, effective	cc	1998
Stroke/bore	mm	94.6 / 82.0
Compression	:1	11.0
Fuel		min RON 91
Output	kW/hp	135 / 184
at motor speed	rpm	5000 – 6500
Torque	Nm	290
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Power output per litre	kW/l	67.6
Electric motor		
Motor technology		BMW eDrive Technology: Synchronous electric motor integrated into 8-speed Steptronic transmission, generator function for recuperating energy for the high-voltage storage system
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Torque	Nm	265
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High voltage storage system		
Storage system technology / installation location		Lithium ion / under rear seat
Voltage	V	354
Energy capacity (gross)	kWh	12.0
Charging time for 100% charge		3.6 h at 3.7 kW (16 A / 230 V)

BMW 530e xDrive Sedan

Driving dynamics and safety

Front wheel suspension	Double wishbone front axle with structurally separated lower link level in aluminium, small steering roll radius, lateral force balancing, brake nod reduction		
Rear wheel suspension	Aluminium five-link rear axle		
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), Cornering Brake Control CBC, brake assistant DBC, brake dry function, Fading Brake Support, Hill Start Control; xDrive all-wheel drive system linked with DSC; optional: Variable Damper Control		
Safety equipment	Standard: Airbags for driver and passenger, side airbags for 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, crash-active front headrests, crash sensors, tyre pressure display		
Steering	Electromechanical power steering (EPS) with Servotronic function		
Overall steering ratio	:1		14.6
Tyres, front/rear.			225/55 R17 97Y
Wheel rims, front/rear.			7.5J × 17 light alloy

Transmission

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	VIII	:1	0.667
	E	:1	3.317
Rear axle ratio		:1	3.231

Driving performance figures

Acceleration	0-100 km/h	s	6.2
Top speed		km/h	235
Maximum speed – electric:		km/h	140
Electric range		km	55 – 58

BMW EfficientDynamics

BMW EfficientDynamics measures as standard	BMW eDrive technology, electromechanical power steering, hybrid specific Auto Start Stop function, shift point display, ECO PRO model with coasting function and proactive driving assistant, BMW EfficientLightweight, optimised aerodynamic properties, active air flap control, needs-based control of ancillary components, map-controlled oil pump, electric air-conditioning compressor, rear axle differential and transfer gearbox with optimised efficiency, tyres with reduced rolling resistance		
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Fuel consumption in EU cycle

Combined fuel consumption	l/100 km	2.2 – 2.0
CO ₂ emissions from fuel	g/km	49 – 46
Combined power consumption	kWh/100 km	15.4 – 14.1
Emission rating		Euro 6d-TEMP

Insurance rating

3rd party/fully comprehensive/3rd party fire + theft	18 / 27 / 27
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