

The new BMW 5 Series Sedan. 545e xDrive.

BMW 545e xDrive Sedan		
Body		
No of doors/seats		4 / 5
Length/width/height ¹⁾ (unladen)	mm	4963 / 1868 / 1483
Wheelbase	mm	2975
Track, front/rear	mm	1604 / 1631
Ground clearance	mm	146
Turning circle	m	12.4
Fuel tank capacity	approx. l	46
Engine oil ²⁾	l	6.5
Weight, unladen, to DIN/EU	kg	1945 / 2020
Max load to DIN	kg	660
Max permissible weight	kg	2605
Max axle load, front/rear	kg	1205 / 1455
Max trailer load, braked (12%/unbraked)	kg	2000 / 750
Max roofload/max towbar download	kg	100 / 80
Luggage comp capacity	l	410
Air resistance	c _d x A	0.24 x 2.35
Power Unit		
Drive concept		Full-hybrid drive, drive torque from engine or electric motor or both transmitted to all four wheels via BMW xDrive
Max system output	kW/hp	290 / 394
Max system torque	Nm	60
System power-to-weight ratio (DIN)	kg/kW	6.7
Petrol Engine		
Config/No of cyls/valves		In-line / 6 / 4
Engine technology		BMW TwinPower Turbo technology: TwinScroll 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
Max output	kW/hp	210 / 286
at	rpm	5000 – 6000
Max torque	Nm	450
at	rpm	1600 – 3500
Output per litre	kW/l	70.1
Electric Motor		
Motor technology		BMW eDrive technology: synchronous electric motor integrated into eight-speed Steptronic transmission, generator function for recuperating energy for the high-voltage battery
Max output	kW/hp	80 / 109
at	rpm	3140
Max torque	Nm	265
at	rpm	100 – 2500
High-voltage Battery		
Storage technology/installation		Lithium-ion / underneath rear seats
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)

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Driving Dynamics and Safety

Suspension, front	Double-wishbone axle in aluminium construction with separate lower track arm, small steering roll radius, transverse force compensation, anti-dive		
Suspension, rear	Five-link axle in aluminium construction		
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), CBC (Cornering Brake Control), DBC (Dynamic Brake Control), Dry Braking function, Fading Compensation, Start-Off Assistant, all-wheel-drive system xDrive linked with DSC; optional: Adaptive suspension		
Safety equipment	Standard: airbags for driver and front passenger, side airbags for driver and front passenger, head airbags front and rear, three-point inertia-reel seatbelts on all seats with belt stopper, belt tensioner and belt force limiter at the front, crash-active front head restraints, crash sensors, tyre pressure indicator		
Steering	Electric Power Steering (EPS) with Servotronic function; optional: Integral Active Steering		
Steering ratio, overall	:1	16.5	
Tyres, front/rear	225/55 R17 101Y XL		
Rims, front/rear	7.5J x 17 light-alloy		

Transmission

Type of transmission	Eight-speed Steptronic transmission		
Gear ratios	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
	R	:1	3.317
Final drive		:1	3.231

Performance

Acceleration	0–100 km/h	s	4.6
Top speed		km/h	250
Top speed (electric)		km/h	140
Electric range (WLTP)		km	49 – 57

BMW EfficientDynamics

BMW EfficientDynamics standard features	BMW eDrive technology, Electric Power Steering, hybrid-specific Auto Start Stop function, Optimum Shift Indicator, ECO PRO and COMFORT 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, electric a/c compressor, efficiency-optimised all-wheel drive, differential with optimised warm-up behaviour, tyres with reduced rolling resistance
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Fuel Consumption ECE

Fuel consumption combined	l/100 km	2.3 – 2.2
CO ₂ emissions from fuel	g/km	53 – 49
Electric power consumption combined	kWh/100 km	16.3 – 15.8
Emission rating		Euro 6d

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

¹⁾ Height including roof fin

²⁾ Oil change

The fuel consumption, CO₂ emissions and electric power consumption figures were determined according to the European Regulation (EC) 715/2007 in the version applicable. The figures refer to a vehicle with basic configuration in Germany. The range shown considers the different sizes of the selected wheels/tyres and the selected items of optional equipment, and may vary during configuration.

The values are based on the new WLTP test cycle and are translated back into NEDC-equivalent values in order to ensure comparability between the vehicles. With respect to these vehicles, for vehicle-related taxes or other duties based (at least inter alia) on CO₂ emissions, the CO₂ values may differ from the values stated here (depending on national legislation).