

Specifications.

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	4936 / 1868 / 1483
Wheelbase	mm	2975
Track, front/rear	mm	1604 / 1631
Ground clearance	mm	146
Turning circle	m	12.4
Tank capacity	approx. ltr	46
Engine oil ²⁾	ltr	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. roof load/towbar download	kg	100 / 80
Luggage comp. capacity	ltr	410
Air resistance	C _d x A	0.24 x 2.35
Drive system		
Drive concept		Full-hybrid drive, drive torque from combustion engine or electric motor or both transmitted to all four wheels via BMW xDrive
System output	kW/hp	290 / 394
System torque	Nm	600
System power-to-weight ratio (DIN)	kg/kW	6.7
Combustion Engine		
Config./No. of cyls./valves		in-line / 6 / 4
Engine technology		BMW TwinPower Turbo technology: twin scroll turbocharger, High Precision Injection, VALVETRONIC fully variable valve timing, Double-VANOS variable camshaft timing
Effective capacity	cm ³	2998
Stroke/bore	mm	94.6 / 82.0
Compression ratio	:1	11.0
Fuel		min RON 91
Output	kW/hp	210 / 286
at	rpm	5000 – 6000
Torque	Nm	450
at	rpm	1600 – 3500
Output per litre	kWh/l	70.1
Electric motor		
Motor technology		BMW eDrive technology: synchronous electric motor integrated in 8-speed Steptronic transmission, generator function for energy recuperation for the high-voltage battery
Max output	kW/hp	80 / 109
at	rpm	3140
Torque	Nm	265
at	rpm	100 – 2500
High-voltage battery		
Storage technology / installation		lithium-ion / underneath rear seat
Voltage	V	354
Capacity (gross)	kWh	12.0
Charging time for 100 % charge		3.6 h at 3.7 kW (16 A / 230 V)

BMW 545e xDrive Sedan

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	Four-piston fixed-calliper disc brakes / vented	
Brakes, rear	Single-piston floating-calliper disc brakes / vented	
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 for front and rear seats, three-point inertia-reel seatbelts on all seats with belt stopper, belt latch tensioner and belt force limiter at the front seats, crash sensors, Tyre Pressure Indicator	
Steering	Electromechanical rack-and-pinion 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 gearbox	8-speed Steptronic	
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 EU cycle

Combined	ltr/100 km	2.3 – 2.2
CO ₂ emissions from fuel	g/km	53 – 49
Power consumption comb.	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 aerial
²⁾ Oil change volume

The values for fuel consumption, CO₂ emission and energy consumption shown were determined in the standardized test cycle according to the European Regulation (EC) 715/2007 in the version applicable at the time of type approval. The figures refer to a vehicle with basic configuration in Germany and the range shown considers optional equipment and the different size of wheels and tires available on the selected model and may vary during the configuration.

The values are already based on the test cycle according to the new WLTP regulation and are translated back into NEDC-equivalent values in order to allow a comparison between 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 to the values stated here.