

Specifications BMW 5 Series Sedan. ActiveHybrid 5



BMW ActiveHybrid 5			
Body			
No. of doors/seats			4 / 5
Length/width/height ¹⁾ (unladen)	mm		4899 / 1860 / 1464
Wheelbase	mm		2968
Track, front/rear	mm		1600 / 1627
Ground clearance	mm		141
Turning circle	m		11.95
Tank capacity	app ltr		67
Cooling system incl. heating	ltr		10.3
Engine oil ²⁾	ltr		6.5
Weight, unladen, to DINEU	kg		1850 / 1925
Max load to DIN	kg		550
Max permissible weight	kg		2400
Max axle load, front/rear	kg		1140 / 1350
Max trailer load, braked (12%)/unbraked	kg		- / -
Max roof load/towbar download	kg		100 / -
Luggage comp capacity	ltr		375
Air drag	c _d x A		0.28 x 2.35
Engine			
Configuration/No. of cyls./valves			R / 6 / 4
Engine technology		BMW TwinPower Turbo technology with twin-scroll turbocharging, High Precision Direct Petrol Injection and fully variable valve control (VALVETRONIC)	
Effective capacity	cm ³		2979
Stroke / bore	mm		89.6 / 84.0
Compression ratio	:1		10.2
Fuel grade			min RON 91
Output	kW/hp		225 / 306
at	min ⁻¹		5800
Torque	Nm		400
at	min ⁻¹		1200-5000
Output electric motor	kW/hp		40 / 55
Torque electric motor	Nm		210
System output	kW/hp		250 / 340
System torque	Nm		450
Electrical system			
Battery/Installation	Ah/-		90 +50 / luggage comp.
High-voltage battery	Wh		1350
Alternator	A/W		200 + 170 / 2800 + 2400
Driving dynamics and safety			
Suspension, front		Double track control arm with separate lower track arm level, aluminium, small steering roll radius, anti-dive	
Suspension, rear		Integral-V multi-arm axle, aluminium, with anti-squat and anti-dive, double acoustic separation	
Brakes, front		Frame-type aluminium single-piston floating-calliper disc brakes	
Diameter	mm		348 x 36 / vented
Brakes, rear		Aluminium single-piston floating-calliper disc brakes	
Diameter	mm		345 x 24 / vented
Driving stability systems		Standard: DSC incl. ABS and DTC (Dynamic Traction Control), CBC (Cornering Brake Control), DBC (Dynamic Brake Control), Dry Braking function, Fading Compensation, Start-Off Assistant, optional: Dynamic Damper Control	
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 integrated in the front seats, crash-activated head restraints at the front, crash sensors, Tyre Defect Indicator	
Steering		Electric Power Steering (EPS) with Servotronic	
Steering ratio, overall	:1		17.1
Tyres, front/rear			225/55 R17 97W
Rims, front/rear			8J x 17 light-alloy

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BMW ConnectedDrive			
Comfort		Optional: BMW Assist incl. Enquiry Service, remote-control functions, Real-Time Traffic Information, BMW TeleServices, integration of mobile devices	
Infotainment		Optional: internet access, BMW Online incl. Park Info, National Info, Google Local Search, News, Realtime Weather, BMW Routes, Office functions, Bluetooth Audio Streaming, Online Update Music Tracks, apps	
Safety		Optional: Adaptive Headlights with cornering lights, variable light distribution and adaptive headlight range control, High Beam Assistant, Park Distance Control, rear-view camera, Surround View incl. Top View and Side View, BMW Night Vision with pedestrian recognition, Head-Up Display, Parking Assistant, Lane Change Warning, Lane Departure Warning, Speed Limit Info, Active Protection, Advanced eCall	
Transmission			
Type of gearbox		Eight-speed automatic with 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	2.929
Performance			
(System) Power/weight ratio	kg/kW		8.2 (7.4)
Output per litre	kW		75.5
Acceleration	0–100 km/h	s	5.9
	0–1000 m	s	25.5
in 4th gear	80–120km/h	s	–
Top speed	km/h		250
BMW EfficientDynamics			
BMW EfficientDynamics standard features		BMW ActiveHybrid, Brake Energy Regeneration with energy flow and efficiency display, hybrid-specific Auto Start-Stop function, EPS (Electric Power Steering), ECO PRO mode, intelligent lightweight construction, air flap control, on-demand operation of ancillary units, climate compressor integrated in the high-voltage network, map-controlled oil pump, tyres with reduced rolling resistance	
Fuel consumption EU ³⁾			
with standard tyres: rims 8J x 17, tyres 225/55 R17 (2K1)			
Urban	ltr/100km		5.7
Extra-urban	ltr/100km		6.7
Combined	ltr/100km		6.4
CO ₂	g/km		149
with rims 8J x 18 and tyres 245/45 R18 or winter tyres (2AU, 2HM, 2K2, 931)			
Urban	ltr/100km		6.1
Extra-urban	ltr/100km		7.3
Combined	ltr/100km		6.8
CO ₂	g/km		160
with rims 8J x 18 front, 9J x 18 rear and tyres 245/45 R18 front, 275/40 R18 rear (2AH, 2DC, 2NC), with rims 8.5J x 19 front, 9J x 19 rear and tyres 245/40 R19 front, 275/35 R19 rear (2K3, 2WC, 2MZ, 2ND), with rims 8.5J x 20 front, 9J x 20 rear and tyres 245/35 R20 front, 275/30 R20 rear (2H9)			
Urban	ltr/100km		6.2
Extra-urban	ltr/100km		7.4
Combined	ltr/100km		7.0
CO ₂	g/km		163
Emission rating			EU5

Specifications apply to ACEA markets; data relevant to homologation applicable in part only to Germany (weight)

¹⁾ Height with roof aerial: 1475 mm

²⁾ Oil change

³⁾ Fuel consumption and CO₂ emissions vary according to the wheel and tyre sizes selected