

# Specifications BMW 5 Series Sedan. ActiveHybrid 5



## BMW ActiveHybrid 5

### Body

No. of doors/seats		4 / 5
Length/width/height <sup>1)</sup> (unladen)	mm	4907 / 1860 / 1464
Wheelbase	mm	2968
Track, front/rear	mm	1600 / 1627
Ground clearance	mm	141
Turning circle	m	12.0
Tank capacity	app ltr	67
Cooling system incl. heating	ltr	10.3
Engine oil <sup>2)</sup>	ltr	6.5
Weight, unladen, to DIN/EU	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 resistance	c <sub>d</sub> x A	0.27 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 <sup>3</sup>	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 <sup>-1</sup>	5800 – 6000
Torque	Nm	400
at	min <sup>-1</sup>	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	Aluminium single-piston floating-calliper disc brakes in frame structure	
Diameter	mm	348 x 36 / inner-vented
Brakes, rear	Aluminium single-piston floating-calliper disc brakes	
Diameter	mm	345 x 24 / inner-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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<b>BMW ActiveHybrid 5</b>			
<b>Transmission</b>			
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
<b>Performance</b>			
(System) Power/weight ratio (DIN)	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
Top speed under electric power	km/h		60
Top speed coasting	km/h		160
Range under electric power	km		3 – 4
<b>BMW EfficientDynamics</b>			
BMW EfficientDynamics, standard features	BMW ActiveHybrid, Brake Energy Regeneration with energy flow and efficiency display, hybrid-specific Auto Start Stop function, Electric Power Steering (EPS), ECO PRO mode with coasting function, 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 roll resistance		
<b>Fuel Consumption EU<sup>3)</sup></b>			
with standard tyres: rims 8J x 17, tyres 225/55 R17			
Urban	ltr/100km		6.1
Extra-urban	ltr/100km		6.6
Combined	ltr/100km		6.4
CO <sub>2</sub>	g/km		149
with rims 8J x 18 and tyres 245/45 R18 or winter tyres			
Urban	ltr/100km		6.5
Extra-urban	ltr/100km		7.0
Combined	ltr/100km		6.8
CO <sub>2</sub>	g/km		159
with rims 8J x 18 front, 9J x 18 rear and tyres 245/45 R18 front, 275/40 R18 rear			
with rims 8.5J x 19 front, 9J x 19 rear and tyres 245/40 R19 front, 275/35 R19 rear			
with rims 8.5J x 20 front, 9J x 20 rear and tyres 245/35 R20 front, 275/30 R20 rear			
Urban	ltr/100km		6.7
Extra-urban	ltr/100km		7.2
Combined	ltr/100km		7.0
CO <sub>2</sub>	g/km		163
Emission rating			EU6

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

<sup>1)</sup> Height with roof aerial: 1475 mm

<sup>2)</sup> Oil change

<sup>3)</sup> Fuel consumption and CO<sub>2</sub> emissions depend on the selected tyre format