

Specifications BMW 5 Series Sedan. 520d EfficientDynamics Edition



BMW 520d EfficientDynamics Edition		
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	70
Cooling system incl heater	ltr	7.0
Engine oil ²⁾	ltr	5.2
Weight, unladen, to DIN/EU	kg	1620 / 1695
Max load to DIN	kg	610
Max permissible	kg	2230
Max axle load, front/rear	kg	1060 / 1275
Max trailer load (12%), braked/unbraked	kg	2000 / 750
Max roofload/max towbar dwl	kg	100 / 90
Luggage comp capacity	ltr	520
Air resistance	Cd x A	0.27 x 2.35
Engine		
Config/No of cyls/valves		Straight-four / 4
Engine technology		BMW TwinPower Turbo technology with variable-geometry turbocharger, Common Rail direct injection with piezo injectors (max. injection pressure: 1800 bar)
Capacity, effective	cc	1995
Stroke / bore	mm	90.0 / 84.0
Compression ratio	:1	16.5
Fuel grade		Diesel
Max output	kW/hp	135 / 184
at	rpm	4000
Max torque	Nm	380
at	rpm	1750-2750
Electrical System		
Battery/installation	Ah/-	80 / luggage comp
Alternator	AW	180 / 2520
Driving Dynamics and Safety		
Suspension, front		Double track control arm axle with separate lower track arm level, aluminium, small steering roll radius, anti-dive
Suspension, rear		Integral-V multi-arm axle, aluminium, with steering function, anti-squat and anti-dive, double acoustic separation
Brakes, front		Single-piston aluminium swing-calliper disc brakes in frame structure
Diameter	mm	330 x 24 / inner-vented
Brakes, rear		Single-piston swing-calliper disc brakes
Diameter	mm	330 x 20 / 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 belts on all seats with belt stopper, belt tightener and belt force limiter at the front, crash-activated headrests at the front, crash sensors, Tyre Defect Indicator
Steering		Electric Power Steering (EPS) with Servotronic; optional: Integral Active Steering
Steering transmission, overall	:1	17.1
Tyres, front/rear		225/55 R17 97W
Rims, front/rear		8J x 17 light-alloy

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8/2011

Valid from
9/2011

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BMW ConnectedDrive

Comfort	Opt: BMW Assist including Enquiry Service, remote-control functions, Real-Time Traffic Information, BMW TeleServices, integration of mobile terminals
Infotainment	Opt: Internet, BMW Online incl Parkinfo, 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 Bending Lights, variable light distribution and adaptive headlight range control, High-Beam Assistant, Park Distance Control, back-up camera, Surround View including Side View and Top View, BMW Night Vision with detection of persons, Head-Up Display, Parking Assistant, Lane Change Warning, Lane Departure Warning, Speed Limit Info, Active Protection, Automatic/Enhanced Emergency Call

Transmission

Type of gearbox	Six-speed manual		
Gear ratios	I	:1	4.110
	II	:1	2.248
	III	:1	1.403
	IV	:1	1.000
	V	:1	0.802
	VI	:1	0.659
	R	:1	3.727
Final drive		:1	3.077

Performance

Power-to-weight ratio	kg/kW	12.0
Output per litre	kW	67.7
Acceleration 0-100 km/h	sec	8.2
Standing-start	sec	28.8
in 4th gear 80-120 km/h	sec	7.5
Top speed	km/h	231

BMW EfficientDynamics

BMW EfficientDynamics, standard features	Brake Energy Regeneration with recuperation display, Auto Start Stop function, gearshift point indicator (on manual gearbox models), ECO PRO mode, intelligent lightweight construction, on-demand operation of ancillary units, air flap control, Electric Power Steering (EPS), detachable a/c compressor, optimized aerodynamics, optimized final drive, tyres with reduced roll resistance
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Fuel consumption EU

Urban	ltr/100 km	5.6
Extra-urban	ltr/100 km	3.9
Combined	ltr/100 km	4.5
CO ₂	g/km	119
Emission rating		EU5

Specifications applicable to ACEA markets, data relevant to homologation applicable in part only to Germany (weight)
Figures in brackets apply to automatic transmission models

¹⁾ Height with roof aerial: 1475 mm

²⁾ Oil change