

Specifications. BMW M550d xDrive Sedan.



1/2012

Valid from
3/2012

BMW M550d xDrive Sedan			
Body			
No. of doors/seats			4 / 5
Length/width/height ¹⁾ (unladen)	mm		4910 / 1860 / 1454
Wheelbase	mm		2968
Track, front/rear	mm		1594 / 1599
Ground clearance	mm		131
Turning circle	m		11.95
Tank capacity	approx. l		70
Cooling system incl heating	l		12.6
Engine oil ²⁾	l		6.5
Weight, unladen, to DINEU	kg		1895 / 1970
Max load to DIN	kg		580
Max permissible weight	kg		2475
Max axle load, front/rear	kg		1240 / 1330
Max trailer load, braked (12%)/unbraked	kg		2000 / 750
Max roof load/towbar download	kg		100 / 90
Luggage comp capacity	l		520
Air drag	c _d x A		0.31 x 2.35
Engine			
Configuration/No of cyls/valves			R / 6 / 4
Engine technology		M Performance TwinPower Turbo technology with three turbochargers, multi-stage charging and variable turbine geometry, common-rail direct injection (max pressure: 2200 bar)	
Effective capacity	cm ³		2993
Bore/stroke	mm		90.0 / 84.0
Compression ratio	:1		16.0
Fuel grade			diesel
Output	kW/hp		280 / 381
at	min ⁻¹		4000 – 4400
Torque	Nm		740
at	min ⁻¹		2000 – 3000
Electrical system			
Battery/Installation	Ah/–		90 / luggage comp
Alternator	A/W		220 / 3080
Driving dynamics and safety			
Suspension, front		Double track control arm with separate lower track arm level, aluminium, M-specific damping and suspension tuning, small steering roll radius, anti-dive	
Suspension, rear		Integral-V multi-arm axle, aluminium, double acoustic separation, M-specific damping and suspension tuning, with anti-dive and anti-squat	
Brakes, front		Single-piston aluminium swing-calliper disc brakes in frame structure	
Diameter	mm		374 x 36 / vented
Brakes, rear		Single-piston aluminium swing-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, DSC and xDrive all-wheel drive linked through ICM (Integrated Chassis Management); optional: Dynamic Damper Control, Adaptive Drive	
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 latch tensioner and belt force limiter at the front, crash-activated head restraints at the front, crash sensors, runflat tyres, Tyre Defect Indicator	
Steering		Hydraulic rack-and-pinion steering with M-specific Servotronic function	
Steering ratio, overall	:1		17.9
Tyres, front/rear			245/40 R19 94Y 275/35 R19 96Y
Rims, front/rear			8.5J x 19 LM 9J x 19 LM

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BMW ConnectedDrive

Convenience	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 including Side View and Top View, BMW Night Vision with pedestrian recognition, Head-Up Display, collision warning with braking function in conjunction with Active Cruise Control with Stop & Go function, Lane Change Warning, Lane Departure Warning, Speed Limit Info, Active Protection, Automatic/Advanced Emergency Call

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	2.813

Performance

Power-to-weight ratio (DIN)		kg/kW	6.8	
Output per litre		kW/l	93.6	
Acceleration	0–100 km/h	s	4.7	
	0–1000 m	s	23.7	
	in 4 th /5th gear	80–120	s	– / –
Top speed		km/h	250	

BMW EfficientDynamics

BMW EfficientDynamics standard features	Brake Energy Regeneration with recuperation display, Auto Start-Stop function, ECO PRO mode, intelligent lightweight construction, on-demand operation of ancillary units, detachable a/c compressor, BMW BluePerformance technology
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Fuel consumption EU

with standard tyres		
Urban	l/100km	7.1
Extra-urban	l/100km	5.8
Combined	l/100km	6.3
CO ₂	g/km	165
Emission rating		EU6

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

¹⁾ Height including roof fin: 1465 millimetres

²⁾ Oil change