BMW Media Information

3/2013

Valid from 3/2013

## Specifications. BMW 3 Series Sedan. 320i EfficientDynamics Edition

Front/rear wheels



7J x 16 light-alloy

		BMW 320i EfficientDynamics Edition	
Body			
No. of doors/seats		4/5	
L/W/H <sup>1)</sup> (unladen)	mm	4624 / 1811 / 1416	
Wheelbase	mm	2810	
Front/rear track	mm	1543 / 1583	
Ground clearance	mm	127	
Turning circle	m	11.3	
Fuel capacity	approx. I	60	
Cooling and heating system	П	6.9	
reservoir capacity Engine oil capacity <sup>2)</sup>	· ·	4.7	
Weight, unladen (DIN/EU)	kg	 1390 / 1465	
		(1410 / 1485)	
Payload (DIN)	kg	550	
Permitted total weight	kg	1940 (1960)	
Permitted axle load, front/rear	kg	890 / 1125	
Permitted trailer load (12%) braked/unbraked	kg	-/- (695 / 1100)	
Permitted roof load/trailer download	kg	75 / – (75	
Luggage compartment capacity		480	
Aerodynamic drag	c <sub>c</sub> x A	0.26 x 2.20	
Engine			
Type/no. of cylinders/valves		in-line / 4 / 4	
Engine technology		BMW TwinPower Turbo technology with twin-scroll turbocharger, High Precision Injection, VALVETRONIC fully variable valve control and Double-VANOS variable camshaft control	
Effective capacity	CC	1598	
Stroke/bore	mm	85.8 / 77.0	
Compression ratio	:1	10.5	
Fuel type		min. RON 91	
Output	kW/hp	125 / 170	
at rpm	min <sup>-1</sup>	4800	
Torque	Nm	250	
at rpm	min <sup>-1</sup>	1500	
Electrical			
Battery charge/location	Ah/-	90 / luggage compartment	
Alternator current/output	A/W	170 / 2380	
Driving Dynamics and Safety	,		
Front suspension		Aluminium double-joint spring-strut axle with displaced camber, small positive steering roll radius, transverse force compensation, anti-dive	
Rear suspension		Five-link axle in lightweight construction	
Front brakes		Single-piston floating-calliper disc brakes	
Rear brakes		Single-piston floating-calliper disc brakes	
Driving stability systems		As standard: DSC incl. ABS, ASC and DTC (Dynamic Traction Control), CBC Cornering Brake Control, DBC Dynamic Brake Control, brake drying function, fading compensation, start-off assist	
Safety equipment		As standard: driver and front-seat passenger airbags, driver and front-seat passenger side airbags, front and rear head airbags, three-point automatic seatbelts for all seats, seatbelt tensioners and seatbelt force limiters in front seats, crash sensors, tyre defect indicator	
Steering		Electromechanical rack-and-pinion power steering (EPS), optional: Servotronic function, Variable Sport Steering	
Overall steering ratio	:1	7 15.1	
Front/rear tyres		205/60 R16 92V	
Front/rear wheels		7.1 x 16 light-allo	

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## **Specifications. BMW 3 Series Sedan.**

II	cs Edition	BMW 320i EfficientDynar		
Comfort  Optional: BMW Assist including information service, remote functions, Real Time Traffic Information, BMW TeleServices, mobile device integration, Information and entertainment  Information and entertainment  Optional: Internet connectivity, BMW Online including parking information, country information, Google business search, news, real-time weather, BMW Routes, office functions, Bluetooth audio streaming, online music title update, apps  Safety  Optional: Adaptive Headlights with turning lights, variable light distribut adaptive headlight range adjustment, high beam assistance, park discontrol, rear view camera, Surround View incl. Side View and Top V BMW Head-Up Display, cruise control with brake function, Parking As Lane Chance Warning, Lane Departure Warning with Collision Warning limit and no passing information, Active Protection, extended emerger of gearbox  Fransmission  Transmission  Transmission  Type of gearbox  6-speed manual (optional: 8-speed automatic with Steptronic)  Gear ratios  I :1				
remote functions, Real Time Traffic Information, BMW TeleServices, mobile device integration information and entertainment   Information, country information, entertainment   Information Adaptive Headlights with turning lights, variable light distributed   Information, country information, parking billings, with control information   Information Acaptive Headlights with turning lights, variable light entertainment   Information, ent		nectedDrive		
Information, country information, Google business Search, news, real-time weather, BMW Routes, office functions, Bluetooth audio streaming, online music title update, apps  Safety  Optional: Adaptive Headlights with turning lights, variable light distribut adaptive headlight weather, high beam assistance, park distribut adaptive headlight range adjustment, high beam assistance, park distributed adoptive control, rear view camera, Surround View incl. Side View and Top V. BMW Head-Up Display, cruise control with brake function, Parking As. Lane Chance Warning, Lane Departure Warning with Collision Warning limit and no passing information, Active Protection, extended emerger of gearbox.  Fransmission  Type of gearbox  6-speed manual (optional: 8-speed automatic with Steptronic)  Gear ratios  I  1  11  2.544  III  11  2.544  III  11  2.544  III  11  2.544  III  11  3.655  IV  11  3.100  VI  11  3.000  VI  11  3.000  VI  11  3.000  VII  11  3.000  VIII  11  3.000  Performance  Performance  Performance  Performance  Will  Acceleration  0-1000 km/h  sec.  0-1,000 m  sec.  2.500  2.600  In 4th/5th gear 80-120 km/h  sec.  Max. speed  km/h  Sec.  Max. speed  Max. speed  Max. speed  BMW EfficientDynamics Features included as standard  Automatic Start/Stop function, gear shift indicator (manual), ECO PRO intelligent lightweight construction, on-demand operation of ancillary un regulated oil pump, air flap control, switchable air conditioning comprol differential with optimized-warm-up behaviour, optimized aerodynamic		remote functions, Real Time Traffic Information, BMW TeleServices, mobile device integration		
adaptive headlight range adjustment, high beam assistance, park dis control, rear view camera, Surround View incl. Side View and Top N BMW Head-Up Display, cruise control with brake function, Parking AS Lane Chance Warning, Lane Departure Warning with Collision Warning limit and no passing information, Active Protection, extended emergel Pransition of Gear ratios   1	1,	information, country information, Google business sear news, real-time weather, BMW Routes, office function	nation and entertainment	Information and
Type of gearbox	distance p View, Assistant, ning, speed	adaptive headlight range adjustment, high beam assistance, pa control, rear view camera, Surround View incl. Side View and <sup>1</sup> BMW Head-Up Display, cruise control with brake function, Parkir Lane Chance Warning, Lane Departure Warning with Collision Wa	у	Safety
1				
II	·			
III	552 (4.714)			Gear ratios
No.	548 (3.143)			
V   1   1   1.000	559 (2.106)			
VI   :1   0.830	230 (1667)		• • •	
VII   :1	000 (1.285)	• • • • • • • • • • • • • • • • • • • •	*	
Vili   :1   4.138	330 (1.000)			
R :1 4.138  Differential ratio :1 2.813  Performance  Weight-to-power ratio kg/kW 11  (DIN unladen)  Specific power output kW/I  Acceleration 0–100 km/h sec.  0–1,000 m sec. 28  in 4th/5th gear 80–120 km/h sec.  Max. speed km/h 2  BMW EfficientDynamics  BMW EfficientDynamics  BMW EfficientDynamics Features included as standard  Brake Energy Regeneration, electromechanical power steering, Automatic Start/Stop function, gear shift indicator (manual), ECO PRO intelligent lightweight construction, on-demand operation of ancillary un regulated oil pump, air flap control, switchable air conditioning comprodifferential with optimized-warm-up behaviour, optimized aerodynamic	- (0.839)	***	***	
Differential ratio   :1   2.813	- (0.667)	***	* * * * * * * * * * * * * * * * * * * *	
Weight-to-power ratio kg/kW 11  (DIN unladen)  Specific power output kW/I  Acceleration 0–100 km/h sec.  0–1,000 m sec. 28  in 4th/5th gear 80–120 km/h sec.  Max. speed km/h 2   BMW EfficientDynamics  BMW EfficientDynamics Features included as standard  Brake Energy Regeneration, electromechanical power steering, Automatic Start/Stop function, gear shift indicator (manual), ECO PRO intelligent lightweight construction, on-demand operation of ancillary un regulated oil pump, air flap control, switchable air conditioning compridifferential with optimized-warm-up behaviour, optimized aerodynamic	138 (3.295) 813 (3.154)			Differential ratio
Weight-to-power ratio kg/kW 11  (DIN unladen)  Specific power output kW/I  Acceleration 0–100 km/h sec.  0–1,000 m sec. 28  in 4th/5th gear 80–120 km/h sec.  Max. speed km/h 2   BMW EfficientDynamics  BMW EfficientDynamics Features included as standard  Brake Energy Regeneration, electromechanical power steering, Automatic Start/Stop function, gear shift indicator (manual), ECO PRO intelligent lightweight construction, on-demand operation of ancillary un regulated oil pump, air flap control, switchable air conditioning compridifferential with optimized-warm-up behaviour, optimized aerodynamic		nce .	ormance	Performance
Acceleration 0–100 km/h sec.  0–1,000 m sec. 28 in 4th/5th gear 80–120 km/h sec.  Max. speed km/h 2   BMW EfficientDynamics  BMW EfficientDynamics Features included as standard  Brake Energy Regeneration, electromechanical power steering, Automatic Start/Stop function, gear shift indicator (manual), ECO PRO intelligent lightweight construction, on-demand operation of ancillary un regulated oil pump, air flap control, switchable air conditioning compridifferential with optimized-warm-up behaviour, optimized aerodynamic	11.1 (11.3)	power ratio kg/kW	ht-to-power ratio	Weight-to-power
0-1,000 m sec. 28 in 4th/5th gear 80-120 km/h sec.  Max. speed km/h 2  BMW EfficientDynamics  BMW EfficientDynamics Features included as standard Brake Energy Regeneration, electromechanical power steering, Automatic Start/Stop function, gear shift indicator (manual), ECO PRO intelligent lightweight construction, on-demand operation of ancillary un regulated oil pump, air flap control, switchable air conditioning compridifferential with optimized-warm-up behaviour, optimized aerodynamic	78.2	wer output kW/l	ific power output	Specific power
in 4th/5th gear 80–120 km/h sec.  Max. speed km/h 2  BMW EfficientDynamics  BMW EfficientDynamics Features included as standard Brake Energy Regeneration, electromechanical power steering, Automatic Start/Stop function, gear shift indicator (manual), ECO PRO intelligent lightweight construction, on-demand operation of ancillary un regulated oil pump, air flap control, switchable air conditioning compridifferential with optimized-warm-up behaviour, optimized aerodynamic	7.6 (7.6)	1 11		Acceleration
Max. speed km/h 2  BMW EfficientDynamics  BMW EfficientDynamics Features included as standard Brake Energy Regeneration, electromechanical power steering, Automatic Start/Stop function, gear shift indicator (manual), ECO PRO intelligent lightweight construction, on-demand operation of ancillary regulated oil pump, air flap control, switchable air conditioning comprodifferential with optimized-warm-up behaviour, optimized aerodynamic	28.0 (28.2)	,		
BMW EfficientDynamics  BMW EfficientDynamics Features included as standard  Brake Energy Regeneration, electromechanical power steering, Automatic Start/Stop function, gear shift indicator (manual), ECO PRO intelligent lightweight construction, on-demand operation of ancillary un regulated oil pump, air flap control, switchable air conditioning compridifferential with optimized-warm-up behaviour, optimized aerodynamic	8.0 / 9.8			
BMW EfficientDynamics Features included as standard  Brake Energy Regeneration, electromechanical power steering, Automatic Start/Stop function, gear shift indicator (manual), ECO PRO intelligent lightweight construction, on-demand operation of ancillary un regulated oil pump, air flap control, switchable air conditioning compredifferential with optimized-warm-up behaviour, optimized aerodynamic	230 (230)	km/h	speed	Max. speed
included as standard  Automatic Start/Stop function, gear shift indicator (manual), ECO PRO intelligent lightweight construction, on-demand operation of ancillary un regulated oil pump, air flap control, switchable air conditioning compr differential with optimized-warm-up behaviour, optimized aerodynamic		ientDynamics	/ EfficientDynamics	BMW Efficien
	RO mode, units, map- npressor,	standard  Automatic Start/Stop function, gear shift indicator (manual), ECO intelligent lightweight construction, on-demand operation of ancilla regulated oil pump, air flap control, switchable air conditioning or differential with optimized-warm-up behaviour, optimized aerodyr		
Fuel consumption (EU)		umption (FU)	consumption (FIII)	Fuel consumn
Urban 1/100 km	7.0 (7.3)			
	4.4 (4.4)			
	5.3 (5.4)			
	124 (127)			
Emissions standard	EU6	<u>~</u>		

Technical data valid for ACEA countries/Some permitted weights valid only for Germany Figures in brackets are for vehicles with automatic transmission

<sup>&</sup>lt;sup>1)</sup> Height with roof aerial: 1428 mm <sup>2)</sup> Oil change volume