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10. Technical specifications. The new BMW M3 Sedan.

The new BMW M4 Coupe.



		BMW M3 Sedan	BMW M4 Coup	
Body				
No. of doors/seats		4/5	2/-	
Length/width/height	mm	4671/1877/1424	4671/1870/138	
EU unladen)		2012		
Wheelbase	mm	2812		
Track, front/rear	mm	1579/1603		
Ground clearance		120	12	
Turning circle	m	12.2		
Tank capacity	approx. ltr	60		
Cooling system incl. heating	ltr	13.9		
Engine oil ¹⁾	ltr	6.5		
Weight, unladen, to DIN/EU	kg	1520/1595 (1560/1635)	1497/157 (1537/161)	
Max. load to DIN	kg	580 (540)	543 (50	
Max. permissible weight	kg	2100	204	
Max. axle load, front/rear	kg	990/1170	970/113	
Max. trailer load.	kg	/	370,110	
oraked (12%)/unbraked	Ny			
Max. roof load/towbar download	kg	75/		
	ltr	480	44	
Luggage comp. capacity Air resistance	C _d x A	0.34 x 2.29	 0.34 x 2.2	
	U _d X A	0.34 X 2.29	0.34 X 2.2	
Engine		Diold		
Config./no. of cyls./valves		R/6/4		
Engine technology	M TwinPower Turbo technology with two mono-scroll turbochargers, High Precision Direct Petrol Injection, fully variable valve timing (VALVETRONIC) and variable camshaft control (Double-VANOS)			
	2		(Double-VAINOS)	
Effective capacity	CM3	2.979		
Stroke/Bore	mm	89.6 / 84.0		
Compression ratio	:1	10.2		
Fuel grade		RON95 – RON98		
Output	kW/hp	317/431		
at	rpm	5500-7300		
Torque	Nm	550		
at	rpm	1850–5500		
Electrical system				
Electrical system Battery/installation	Ah/-	69/luggage comp.		
Battery/installation	Ah/– A/W	69/luggage comp. 209/2926 (at rated speed)		
Battery/installation Alternator	A/W			
Batterylinstallation Alternator Driving dynamics and safe	A/W	209/2926 (at rated speed)	t axle,	
	A/W			
Battery/installation Alternator Driving dynamics and safe Suspension, front	A/W	209/2926 (at rated speed) Aluminium double-joint spring stru M-specific kinematics and rigidity s	set-up	
Batterylinstallation Alternator Driving dynamics and safe	A/W	209/2926 (at rated speed) Aluminium double-joint spring stru M-specific kinematics and rigidity s uminium five-link axle, control arms and wheel carrie	set-up ers, rear axle subframe ir	
Battery/installation Alternator Driving dynamics and safe Suspension, front	A/W	209/2926 (at rated speed) Aluminium double-joint spring stru M-specific kinematics and rigidity s uminium five-link axle, control arms and wheel carrie lightweight steel construction, rigidly bolte	set-up ers, rear axle subframe ir d to the body,	
Battery/installation Alternator Driving dynamics and safe Suspension, front Suspension, rear	A/W	209/2926 (at rated speed) Aluminium double-joint spring stru M-specific kinematics and rigidity s uminium five-link axle, control arms and wheel carrie lightweight steel construction, rigidly bolte M-specific kinematics and rigidity s	set-up ers, rear axle subframe ir d to the body, set-up	
Battery/installation Alternator Driving dynamics and safe Suspension, front Suspension, rear Brakes, front	A/W	209/2926 (at rated speed) Aluminium double-joint spring stru M-specific kinematics and rigidity s uminium five-link axle, control arms and wheel carrie lightweight steel construction, rigidly bolte M-specific kinematics and rigidity s Four-piston fixed-calliper disc brakes / inner-w	set-up ers, rear axle subframe ir d to the body, set-up ented, perforated	
Battery/installation Alternator Driving dynamics and safe Suspension, front Suspension, rear Brakes, front Brakes, rear	A/W	209/2926 (at rated speed) Aluminium double-joint spring stru M-specific kinematics and rigidity s uminium five-link axle, control arms and wheel carrie lightweight steel construction, rigidly bolte M-specific kinematics and rigidity s Four-piston fixed-calliper disc brakes / inner-ve Twin-piston fixed-calliper disc brakes / inner-ve	set-up ers, rear axle subframe ir d to the body, set-up ented, perforated ented, perforated	
Battery/installation Alternator Driving dynamics and safe Suspension, front	AW ty Al	209/2926 (at rated speed) Aluminium double-joint spring stru M-specific kinematics and rigidity s uminium five-link axle, control arms and wheel carrie lightweight steel construction, rigidly bolte M-specific kinematics and rigidity s Four-piston fixed-calliper disc brakes / inner-v Twin-piston fixed-calliper disc brakes / inner-v Standard: DSC incl. ABS and MDM (M Dy CBC (Cornering Brake Control), DBC (Dynamic Br	set-up ers, rear axle subframe ir d to the body, set-up ented, perforated ented, perforated namic Mode), ake Control), Stability	
Battery/installation Alternator Driving dynamics and safe Suspension, front Suspension, rear Brakes, front Brakes, rear Driving stability systems	AW ty Al	209/2926 (at rated speed) Aluminium double-joint spring stru M-specific kinematics and rigidity s uminium five-link axle, control arms and wheel carrie lightweight steel construction, rigidly bolte M-specific kinematics and rigidity s Four-piston fixed-calliper disc brakes / inner-v Twin-piston fixed-calliper disc brakes / inner-v Standard: DSC incl. ABS and MDM (M Dy CBC (Cornering Brake Control), DBC (Dynamic Br eraction DSC / Active M Differential, Dry Braking fur	set-up ers, rear axle subframe ir d to the body, set-up ented, perforated ented, perforated namic Mode), ake Control), Stability action, Start-Off Assistar	
Battery/installation Alternator Driving dynamics and safe Suspension, front Suspension, rear Brakes, front Brakes, rear	AW ty Al	209/2926 (at rated speed) Aluminium double-joint spring stru M-specific kinematics and rigidity s uminium five-link axle, control arms and wheel carrie lightweight steel construction, rigidly bolte M-specific kinematics and rigidity s Four-piston fixed-calliper disc brakes / inner-v Twin-piston fixed-calliper disc brakes / inner-v Standard: DSC incl. ABS and MDM (M Dy CBC (Cornering Brake Control), DBC (Dynamic Br eraction DSC / Active M Differential, Dry Braking fur Standard: : airbags for driver and front passeng	set-up ers, rear axle subframe ir d to the body, set-up ented, perforated ented, perforated namic Mode), ake Control), Stability action, Start-Off Assistar er, side airbags for	
Battery/installation Alternator Driving dynamics and safe Suspension, front Suspension, rear Brakes, front Brakes, rear Driving stability systems	AW ty Al	209/2926 (at rated speed) Aluminium double-joint spring stru M-specific kinematics and rigidity s uminium five-link axle, control arms and wheel carrie lightweight steel construction, rigidly bolte M-specific kinematics and rigidity s Four-piston fixed-calliper disc brakes / inner-w Twin-piston fixed-calliper disc brakes / inner-w Standard: DSC incl. ABS and MDM (M Dy CBC (Cornering Brake Control), DBC (Dynamic Br eraction DSC / Active M Differential, Dry Braking fur Standard: : airbags for driver and front passeng driver and front passenger, head airbags fr	set-up ers, rear axle subframe in d to the body, set-up ented, perforated ented, perforated namic Mode), ake Control), Stability action, Start-Off Assistan er, side airbags for ront and rear,	
Battery/installation Alternator Driving dynamics and safe Suspension, front Suspension, rear Brakes, front Brakes, rear Driving stability systems Safety equipment	AW ety Al	209/2926 (at rated speed) Aluminium double-joint spring stru M-specific kinematics and rigidity s uminium five-link axle, control arms and wheel carrie lightweight steel construction, rigidly bolte M-specific kinematics and rigidity s Four-piston fixed-calliper disc brakes / inner-w Twin-piston fixed-calliper disc brakes / inner-w Standard: DSC incl. ABS and MDM (M Dy CBC (Cornering Brake Control), DBC (Dynamic Br eraction DSC / Active M Differential, Dry Braking fur Standard: : airbags for driver and front passeng driver and front passenger, head airbags for three-point inertia-reel seatbelts on a	set-up ers, rear axle subframe in d to the body, set-up ented, perforated ented, perforated namic Mode), ake Control), Stability oction, Start-Off Assistan er, side airbags for ront and rear, all seats	
Battery/installation Alternator Driving dynamics and safe Suspension, front Suspension, rear Brakes, front Brakes, rear Driving stability systems	AW ety Al	209/2926 (at rated speed) Aluminium double-joint spring stru M-specific kinematics and rigidity s uminium five-link axle, control arms and wheel carrie lightweight steel construction, rigidly bolte M-specific kinematics and rigidity s Four-piston fixed-calliper disc brakes / inner-v Twin-piston fixed-calliper disc brakes / inner-v Standard: DSC incl. ABS and MDM (M Dy CBC (Cornering Brake Control), DBC (Dynamic Br eraction DSC / Active M Differential, Dry Braking fur Standard: : airbags for driver and front passeng driver and front passenger, head airbags fn three-point inertia-reel seatbelts on a Variable M Sport rack-and-pinion power steering, e	set-up ers, rear axle subframe in d to the body, set-up ented, perforated ented, perforated namic Mode), ake Control), Stability nction, Start-Off Assistan er, side airbags for ront and rear, all seats dectromechanical with	
Battery/installation Alternator Driving dynamics and safe Suspension, front Suspension, rear Brakes, front Brakes, rear Driving stability systems Safety equipment Steering	AW :ty Al inte	209/2926 (at rated speed) Aluminium double-joint spring stru M-specific kinematics and rigidity s uminium five-link axle, control arms and wheel carrie lightweight steel construction, rigidly bolte M-specific kinematics and rigidity s Four-piston fixed-calliper disc brakes / inner-v Twin-piston fixed-calliper disc brakes / inner-v Standard: DSC incl. ABS and MDM (M Dy CBC (Cornering Brake Control), DBC (Dynamic Br eraction DSC / Active M Differential, Dry Braking fur Standard: : airbags for driver and front passeng driver and front passenger, head airbags f three-point inertia-reel seatbelts on a Variable M Sport rack-and-pinion power steering, e variable (rack-and-pinion) ratio	set-up ers, rear axle subframe in d to the body, set-up ented, perforated ented, perforated namic Mode), ake Control), Stability nction, Start-Off Assistan er, side airbags for ront and rear, all seats dectromechanical with	
Battery/installation Alternator Driving dynamics and safe Suspension, front Suspension, rear Brakes, front Brakes, rear Driving stability systems Safety equipment	AW ety Al	209/2926 (at rated speed) Aluminium double-joint spring stru M-specific kinematics and rigidity s uminium five-link axle, control arms and wheel carrie lightweight steel construction, rigidly bolte M-specific kinematics and rigidity s Four-piston fixed-calliper disc brakes / inner-v Twin-piston fixed-calliper disc brakes / inner-v Standard: DSC incl. ABS and MDM (M Dy CBC (Cornering Brake Control), DBC (Dynamic Br eraction DSC / Active M Differential, Dry Braking fur Standard: : airbags for driver and front passeng driver and front passenger, head airbags fn three-point inertia-reel seatbelts on a Variable M Sport rack-and-pinion power steering, e	set-up ers, rear axle subframe ir d to the body, set-up ented, perforated ented, perforated namic Mode), ake Control), Stability inction, Start-Off Assistar er, side airbags for ront and rear, all seats lectromechanical with s	

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			BMW M3 Sedan BMW M4 Coupe
Transmission			
Type of gearbox	(6-speed manual gearbox (optional: 7-speed Double Clutch Transmission)
Gear ratios		:1	4.110 (4.806)
		:1	2.315 (2.593)
		:1	1.542 (1.701)
	IV	:1	1.179 (1.277)
	V	:1	1.000 (1.000)
	VI	:1	0.846 (0.844)
	VII	:1	(0.671)
	R	:1	3.727 (4.172)
Final drive		:1	3.462 (3.462)
Performance			
Power-to-weigh	t ratio (DIN)	kg/kW	4.79 (4.92) 4.72 (4.84
Output per litre		kW/ltr	106.4
Acceleration	0–100 km/h	S	4.3 (4.1)
	0–1000 m	S	22.2 (21.9)
n 4th/5th gear	80–120 km/h	S	3.5/4.2 (3.5/4.3)
Top speed		km/h	250 (250)
BMW Efficient	Dynamics		
BMW EfficientD	ynamics,		Brake Energy Regeneration, Electric Power Steering,
standard feature	s		Engine Start Stop function, Optimum Gearshift Indicator (6-speed manual
			gearbox and 7-speed Double Clutch Transmission in manual mode),
			intelligent lightweight construction, on-demand operation of ancillary units,
			map-controlled oil pump, final drive with optimised warm-up behaviour
Fuel consump	tion EU ²⁾		
With standard ty	res:		
Urban		ltr/100 km	12.0 (11.1)
Extra-urban		ltr/100 km	6.9 (6.7)
Combined		ltr/100 km	8.8 (8.3)
CO ₂		g/km	204 (194)
Emission rating			ELIG

EU6

Specifications apply to ACEA markets; data relevant to homologation applicable in part only to Germany (weight) Figures in brackets apply to 7-speed Double Clutch Transmission

Emission rating

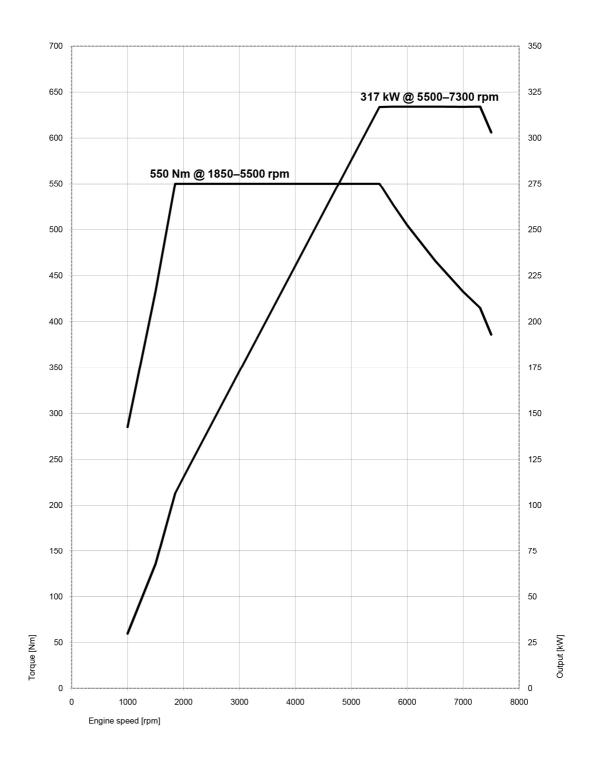
 $^{1)}$ Oil change $^{2)}$ Fuel consumption and CO_2 emissions depend on the selected tyre format

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11. Output and torque diagram. The new BMW M3 Sedan. The new BMW M4 Coupe.



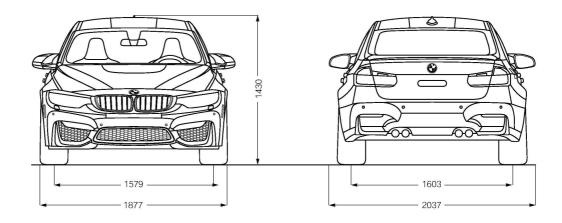


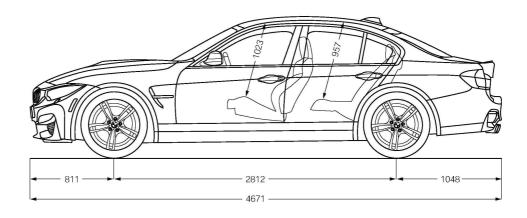


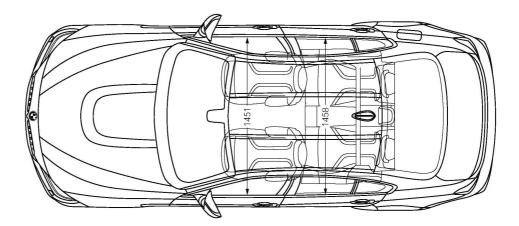
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12. Exterior and interior dimensions. The new BMW M3 Sedan.









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