

Technical specifications.

BMW M8 Gran Coupé.

M8 Competition.



BMW
Media
Information

01/2021
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BMW M8 Competition Gran Coupe

Body

No of doors/seats		4 / 5
Length/width/height (unladen)	mm	5098 / 1943 / 1420
Wheelbase	mm	3027
Track, front/rear	mm	1626 / 1660
Ground clearance	mm	123
Turning circle	m	12.9
Fuel tank capacity	approx. l	68
Engine oil ¹⁾	l	10.6
Weight, unladen, to DIN/EU	kg	1995 / 2070
Max load to DIN	kg	445
Max permissible weight	kg	2440
Max axle load, front/rear	kg	1230 / 1240
Max trailer load, braked (12%)/unbraked	kg	- / -
Max roofload/max towbar download	kg	- / -
Luggage comp capacity	l	440
Air resistance	c _d x A	0.34 x 2.25

Power Unit

Config/No of cyls/valves		V / 8 / 4
Engine technology		M TwinPower Turbo technology with cross-bank exhaust manifold: M TwinScroll twin turbocharger, indirect charge air cooling, High Precision Injection (maximum injection pressure: 350 bar), VALVETRONIC fully variable valve timing, Double-VANOS variable camshaft timing
Effective capacity	cc	4395
Stroke/bore	mm	88.3 / 89.0
Compression ratio	:1	10.0
Fuel		RON 98 (min. RON 91)
Max output	kW/hp	460 / 625
at	rpm	6000
Max torque	Nm	750
at	rpm	1800 – 5860

Electrical System

Battery/installation	Ah/-	70 / luggage compartment
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Driving Dynamics and Safety

Suspension, front		Adaptive M suspension with double wishbone axle in lightweight aluminium construction, M-specific kinematics and elastokinematics
Suspension, rear		Adaptive M suspension with five-link axle in lightweight aluminium construction, M-specific elastokinematics
Brakes, front		M compound brakes, vented, with six-piston fixed callipers
Brakes, rear		M compound brakes, vented, with single-piston floating callipers
Driving stability systems		Standard: DSC incl. ABS, ASC and M Dynamic Mode (MDM), can be switched off, CBC (Cornering Brake Control), DBC (Dynamic Brake Control), Dry Braking function, Start-Off Assistant, Active M Differential, DSC linked with M xDrive all-wheel 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 stopper, belt latch tensioner and belt force limiter in the front, crash sensors, tyre pressure indicator
Steering		Electric Power Steering (EPS) with M-specific Servotronic function and variable sport ratio
Steering ratio, overall	:1	14.3
Tyres, front/rear		275/35 ZR20 102Y XL 285/35 ZR20 104Y XL
Rims, front/rear		9.5J x 20 light-alloy 10.5J x 20 light-alloy

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Power transfer

M xDrive intelligent all-wheel drive, central transfer case with fully-variable multiplate clutch, fully-variable torque distribution between front and rear axle, rear differential with fully-variable Active M Differential, locking effect 0 – 100 per cent

Transmission

Type of transmission	Eight-speed M Steptronic transmission with Drivelogic, transmission oil cooling		
Gear ratios	I	:1	5.000
	II	:1	3.200
	III	:1	2.143
	IV	:1	1.720
	V	:1	1.313
	VI	:1	1.000
	VII	:1	0.823
	VIII	:1	0.640
	R	:1	3.478
Final drive		:1	3.154

Performance

Power-to-weight ratio (DIN)	kg/kW	4.3
Output per litre	kW/l	104.7
Acceleration 0–100 km/h	s	3.2
Acceleration 0–200 km/h	s	11.0
Top speed	km/h	250 / 305 ²⁾

BMW EfficientDynamics

BMW EfficientDynamics standard features Brake Energy Regeneration, Electric Power Steering, Auto Start Stop function, Optimum Shift Indicator in manual shift mode, BMW EfficientLightweight, on-demand operation of ancillary units, Li-ion battery, map-regulated oil pump, rear differential and transfer case with optimised efficiency, optimised aerodynamics (underside panelling, front spoiler, rear spoiler)

Fuel Consumption ECE

Urban (NEDC)	l/100 km	16.8 – 16.6
Extra-urban (NEDC)	l/100 km	8.1 – 8.0
Combined (NEDC)	l/100 km	11.3 – 11.1
Combined (WLTP)	l/100 km	11.6 – 11.2
CO ₂ (NEDC)	g/km	260 – 256
CO ₂ (WLTP)	g/km	264 – 256
Emission rating		Euro 6d

Specifications apply to ACEA markets/data relevant to homologation applies in part only to Germany (weight)

¹⁾ Oil change with filter

²⁾ Limited / with optional M Driver's Package

Official fuel consumption, CO₂ emissions, electric power consumption and electric range figures were determined based on the prescribed measurement procedure in accordance with European Regulation (EC) 2007/715 in the version applicable. They refer to vehicles in the German market. Where a range is shown, NEDC figures consider the different sizes of the selected wheels/tyres, while WLTP figures take into account the impact of any optional extras.

WLTP values are used for determining vehicle-related taxes or other duties based (at least inter alia) on CO₂ emissions as well as eligibility for any applicable vehicle-specific subsidies. Any NEDC values that are shown were calculated based on the new WLTP measurement procedure where appropriate and translated back into equivalent NEDC measurements in order to ensure comparability between the vehicles. Only official figures based on the WLTP procedure are available for new models that have been type tested since 01.01.2021. Further information on the WLTP and NEDC measurement procedures can also be found at www.bmw.com/wltp.

Further information on official fuel consumption figures and specific CO₂ emission values of new passenger cars is included in the