

# Specifications.

## BMW M8 Gran Coupe.

### M 8 Competition.



BMW M8 Competition Gran Coupe		
<b>Body</b>		
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 <sup>1)</sup>	l	10.6
Weight, unladen, to DINEU	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 <sub>d</sub> x A	0.34 x 2.25
<b>Power Unit</b>		
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
<b>Electrical System</b>		
Battery/installation	Ah/-	70 (Li-ion) / Luggage compartment
<b>Driving Dynamics and Safety</b>		
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 <sup>2)</sup>

### 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
Extra-urban (NEDC)	l/100 km	8.1
Combined (NEDC)	l/100 km	11.3
Combined (WLTP)	l/100 km	11.6 – 11.4
CO <sub>2</sub> (NEDC)	g/km	260
CO <sub>2</sub> (WLTP)	g/km	264 – 261
Emission rating		Euro 6d

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

<sup>1)</sup> Oil change with filter

<sup>2)</sup> Limited / with optional M Driver's Package

Fuel consumption, CO<sub>2</sub> emission figures, power consumption and range were measured using the methods required according to Regulation VO (EC) 2007/715 as amended. They refer to vehicles on the automotive market in Germany. With regard to ranges, the NEDC figures take into account differences in the selected wheel and tyre size, while the WLTP figures take into account the effects of any optional equipment.

All figures are already calculated on the basis of the new WLTP test cycle. NEDC values listed have been calculated back to the NEDC measurement procedure where applicable. WLTP values are used as a basis for the assessment of taxes and other vehicle-related levies that are (also) based on CO<sub>2</sub> emissions and, where applicable, for the purposes of vehicle-specific subsidies. Further information on the WLTP and NEDC measurement procedures is also available at [www.bmw.com/wltp](http://www.bmw.com/wltp).