

# Specifications.

## The new BMW 6 Series Gran Coupé.

### 650i xDrive



BMW 650i xDrive Gran Coupé			
<b>Body</b>			
Number of doors/seats			4 / 5
Length/Width/Height (unladen)	mm		5007 / 1894 / 1392
Wheelbase	mm		2968
Track front/rear	mm		1600 / 1665
Ground clearance	mm		126
Turning circle	m		11.95
Tank capacity	appr. l		70
Cooling system incl. heating	l		14.4
Engine oil <sup>1)</sup>	l		8.0
Weight, unladen, to DINEU	kg		1940 / 2015
Max. load to DIN	kg		570
Max. perm. weight, overall	kg		2550
Max perm axle load front/rear	kg		1260 / 1325
Max perm trailer load (12%) braked/unbraked	kg		– / –
Perm roof load/trail download	kg		75 / –
Luggage capacity	l		460 – 1265
Air resistance	c <sub>x</sub> x A		0.31 x 2.24
<b>Engine</b>			
Configuration/No. of cyls./valves			V90 / 8 / 4
Engine technology		BMW TwinPower Turbo technology with two turbochargers, High-Precision direct injection and fully variable valve control (VALVETRONIC)	
Capacity	cc		4395
Stroke/bore	mm		88.3 / 89.0
Compression ratio	:1		10.0
Fuel grade			min ROZ 91
Max output	kW/hp		330 / 450
at	rpm		5500
Max torque	Nm		650
at	rpm		2000 – 4500
<b>Electrical system</b>			
Battery/installation	Ah/–		105 / luggage comp
Alternator	A/W		210 / 2940
<b>Driving dynamics and safety</b>			
Suspension, front	Double-track control arm with separate lower track arm level, aluminium, small steering roll radius, anti-dive		
Suspension, rear	Integral-V multi-arm axle, aluminium, anti-squat and anti-dive, double acoustic separation		
Brakes, front	Single-piston aluminium floating-calliper, frame design		
Diameter	mm		374 x 36 / vented
Brakes, rear	Single-piston aluminium floating-calliper		
Diameter	mm		345 x 24 / vented
Driving stability systems	Fitted as standard: DSC incl. ABS, ASC and DTC (Dynamic Traction Control), CBC (Cornering Brake Control), DBC (Dynamic Brake Control), Dry Braking function, Fading Compensation, Start-Off Assistant, cross-linking of the four-wheel drive with the stability control system DSC within the Integrated Chassis Management (ICM); optional: Dynamic Damper Control <sup>2)</sup> ; Adaptive Drive		
Safety features	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 integrated in the front seats, crash-activated head restraints at the front, crash sensors, runflat tyres, Tyre Defect Indicator		
Steering	Hydraulic rack-and-pinion steering with Servotronic		
Overall steering transmission	:1		18.0
Tyres front/rear			245/45 R18 96Y RSC
Wheels front/rear			8J x 18 LM

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BMW 650i xDrive Gran Coupe			
<b>BMW ConnectedDrive</b>			
Comfort		Optional: BMW Assist incl. Enquiry Service, remote-control functions and V-Info+ (Traffic Info plus), 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 incl. Top View and Side View, BMW Night Vision with pedestrian recognition, Head-Up Display, Active Cruise Control with Stop & Go function, rear-end collision warning with braking function, Lane Change Warning, Lane Departure Warning, Speed Limit Info, Automatic/Advanced Emergency Call	
<b>Transmission</b>			
Type		Eight-speed automatic with Steptronic	
Gear ratios	I		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
<b>Performance</b>			
Power-to-weight ratio (DIN)	kg/kW		5.9
Output per litre	kW/l		75.1
Acceleration	0–100 km/h	s	4.4
	0–1000 m	s	22.9
In 4th gear	80–120 km/h	s	–
Top speed	km/h		250
<b>BMW EfficientDynamics</b>			
BMW EfficientDynamics measures as standard		Brake Energy Regeneration with recuperation display, Auto Start Stop function, ECO PRO mode, intelligent lightweight construction, on-demand operation of ancillary units, flow-controlled power-steering pump, detachable a/c compressor, tyres with reduced rolling resistance	
<b>Fuel consumption EU <sup>3)</sup></b>			
With standard wheels and tyres 8J x 18 wheels, 245/45 R18 tyres (option 2D3)			
Urban	l/100 km		12.9
Extra-urban	l/100 km		7.1
Composite	l/100 km		9.2
CO <sub>2</sub>	g/km		215
With 8.5J x 19 wheels at front, 9J x 19 at the rear and 245/40 R19 tyres at front, 275/35 R19 at the rear (option 2DP, 2FB, 2ND, 2MZ, 2WE),			
With 8.5J x 20 wheels at the front, 9J x 20 at the rear and 245/35 R20 tyres at the front, 275/30 R20 at the rear (option 2H9, 2NM, 2NL)			
Urban	l/100 km		13.1
Extra-urban	l/100 km		7.3
Composite	l/100 km		9.4
CO <sub>2</sub>	g/km		219
Emission classification			EU5

Technical data valid for ACEA markets/part of data relevant to homologation only apply to Germany (weights)

#### Provisional figures

<sup>1)</sup> Oil change quantity

<sup>2)</sup> Standard in Germany

<sup>3)</sup> Fuel consumption and CO<sub>2</sub> emissions depend on the selected tyre format