

Specifications.

The new BMW 6 Series Gran Coupé.

640i, 650i



BMW 640i Gran Coupé		BMW 650i Gran Coupé
Body		
Number of doors/seats	4 / 5	4 / 5
Length/Width/Height (unladen)	mm 5007 / 1894 / 1392	5007 / 1894 / 1392
Wheelbase	mm 2968	2968
Track front/rear	mm 1600 / 1665	1600 / 1665
Ground clearance	mm 126	126
Turning circle	m 11.95	11.95
Tank capacity	appr l 70	70
Cooling system incl. heating	l 10.0	14.4
Engine oil ¹⁾	l 6.5	8.0
Weight, unladen, to DINEU	kg 1750 / 1825	1865 / 1940
Max. load to DIN	kg 570	570
Max. perm. weight, overall	kg 2360	2465
Max perm axle load front/rear	kg 1130 / 1295	1210 / 1315
Max perm trailer load (12%) braked/unbraked	kg – / –	– / –
Perm roof load/trail download	kg 75 / –	75 / –
Luggage capacity	l 460 – 1265	460 – 1265
Air resistance	c _x x A 0.29 x 2.24	0.29 x 2.24
Engine		
Configuration/No. of cyls. /valves	R / 6 / 4	V90 / 8 / 4
Engine technology	BMW TwinPower Turbo technology with Twin Scroll turbocharger, High-Precision direct injection and fully variable valve control (VALVETRONIC)	BMW TwinPower Turbo technology with two turbochargers, High-Precision direct injection and fully variable valve control (VALVETRONIC)
Capacity	cc 2979	4395
Stroke/bore	mm 89.6 / 84.0	88.3 / 89.0
Compression ratio	:1 10.2	10.0
Fuel grade	min ROZ 91	min ROZ 91
Max output	kW/hp 235 / 320	330 / 450
at	rpm 5800 – 6000	5500
Max torque	Nm 450	650
at	rpm 1300 – 4500	2000 – 4500
Electrical system		
Battery/installation	Ah/– 90 / luggage comp	105 / luggage comp
Alternator	A/W 210 / 2940	210 / 2940
Driving dynamics and safety		
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, with steering function, anti-squat and anti-dive, double acoustic separation	
Brakes, front	Single-piston aluminium floating-calliper disc brakes, frame design	
Diameter	mm 348 x 30 / vented	374 x 36 / vented
Brakes, rear	Single-piston aluminium floating-calliper disc brakes	
Diameter	mm 345 x 24 / vented	345 x 24 / vented
Driving stability systems	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; optional: Dynamic Damper Control ²⁾ , 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	Electric Power Steering (EPS) with Servotronic; optional: Integral Active Steering	
Overall steering transmission	:1 17.2	17.2
Tyres front/rear	225/55 R17 97Y RSC (245/45 R18 96Y RSC ²⁾)	245/45 R18 96Y RSC
Wheels front/rear	8J x17 LM (8J x 18 LM ²⁾)	8J x 18 LM

Specifications.

The new BMW 6 Series Gran Coupé.

640i, 650i

BMW 640i Gran Coupe			BMW 650i Gran Coupe		
BMW ConnectedDrive					
Comfort		Optional: BMW Assist incl. Enquiry Service, remote-control functions, 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, Parking Assistant, 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			
Transmission					
Type		Eight-speed automatic with Steptronic			
Gear ratios		I	4.714		4.714
		II	:1	3.143	3.143
		III	:1	2.106	2.106
		IV	:1	1.667	1.667
		V	:1	1.285	1.285
		VI	:1	1.000	1.000
		VII	:1	0.839	0.839
		VIII	:1	0.667	0.667
		R	:1	3.295	3.317
Final drive		:1	3.231		2.813
Performance					
Power-to-weight ratio (DIN)		kg/kW	7.4		5.7
Output per litre		kW/l	78.9		75.1
Acceleration		0–100 km/h	s	5.4	4.6
		0–1000 m	s	25.0	22.8
In 4th gear		80–120 km/h	s	–	–
Top speed		km/h	250		250
BMW EfficientDynamics					
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, air flap control, Electric Power Steering (EPS), detachable a/c compressor, tyres with reduced rolling resistance			
Fuel consumption EU ³⁾					
With standard wheels and tyres					
BMW 640i: 8J x 17 wheels, 225/55 R17 tyres (option 2K1), BMW 650i: 8J x 18 wheels, 245/45 R18 tyres (option 2D3)					
Urban		l/100 km	10.5		11.9
Extra-urban		l/100 km	6.0		6.6
Composite		l/100 km	7.7		8.6
CO ₂		g/km	179		199
with 8J x 18 wheels, 245/45 R18 tyres (option 2D3, BMW 640i: standard in Germany) or with winter tyres (option 9WR, 931)					
Urban		l/100 km	10.6		–
Extra-urban		l/100 km	6.1		–
Composite		l/100 km	7.8		–
CO ₂		g/km	181		–
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	10.7		12.4
Extra-urban		l/100 km	6.2		6.9
Composite		l/100 km	7.9		8.9
CO ₂		g/km	183		206
Emission classification			EU5		EU5

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

¹⁾ Oil change quantity

²⁾ Standard in Germany

³⁾ Fuel consumption and CO₂ emissions depend on the selected tyre format