

Specifications.

The new BMW 6 Series Coupé.

650i xDrive



BMW 650i xDrive Coupé		
Body		
Number of doors/seats		2 / 4
Length/Width/Height (unladen)	mm	4894 / 1894 / 1369
Wheelbase	mm	2855
Track front/rear	mm	1600 / 1665
Ground clearance	mm	124
Turning circle	m	11.7
Tank capacity	appr l	70
Cooling system incl. heating	l	14.4
Engine oil ¹⁾	l	9.0
Weight, unladen, to DIN/EU	kg	1855 / 1930
Max. load to DIN	kg	450
Max. perm. weight, overall	kg	2350
Max perm axle load front/rear	kg	1210 / 1240
Max perm trailer load (12%) braked/unbraked	kg	- / -
Perm roof load/trail download	kg	75 / -
Luggage capacity	l	460
Air resistance	cd x A	0.32 x 2.23
Engine		
Configuration/No. of cyls./valves		V90 / 8 / 4
Engine technology	BMW TwinPower Turbo technology with two turbo chargers, High Precision Injection direct petrol injection, Valvetronic fully variable valve control, double-VANOS fully variable camshaft control	
Capacity	cc	4395
Stroke/bore	mm	88.3 / 89.0
Compression ratio	:1	10.0
Fuel grade		At least RON 91
Max output	kW/hp	330 / 450
at	rpm	5500
Max torque	Nm	650
at	rpm	2000 – 4500
Electrical system		
Battery/installation	Ah/-	105 / luggage comp
Alternator	A/W	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, anti-squat and anti-dive, double acoustic separation	
Brakes, front	Single-piston aluminium floating-calliper disc brakes in frame structure	
Brakes, rear	Single-piston aluminium floating-calliper	
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: 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 Coupe			
BMW ConnectedDrive			
Comfort		Extras: BMW Assist incl. Enquiry Service, remote-control functions, Real Time Traffic Information, BMW TeleServices, integration of mobile devices	
Infotainment		Extras: 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		Extras: 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 including rear-end collision warning with braking function, Lane Change Warning, Lane Departure Warning, Speed Limit Info incl. No Passing Info, Automatic/Advanced Emergency Call	
Transmission			
Type		Eight-speed automatic with Steptronic	
Gear ratios	I	:1	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
Performance			
Power-to-weight ratio (DIN)	kg/kW		5.6
Output per litre	kW/l		75.1
Acceleration	0–100 km/h	s	4.4
	0–1000 m	s	22.7
Top speed	km/h		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, flow-controlled power-steering pump, detachable a/c compressor, tyres with reduced rolling resistance	
Fuel consumption EU²⁾			
With standard wheels and tyres 8J x 18 wheels, 245/45 R18 tyres (SA 2SR)			
Urban	l/100km		12.7
Extra-urban	l/100km		7.1
Composite	l/100km		9.2
CO ₂	g/km		213
With 8J x 18 wheels at front, 9J x 18 at the rear and 245/45 R18 tyres at front, 275/45 R18 at the rear (SA 2DN), 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 (SA 2FB, 2DP), With 8.5J x 20 wheels at front, 9J x 20 at the rear and 245/35 R20 tyres at front, 275/30 R20 at the rear (SA 2H9)			
Urban	l/100km		13.0
Extra-urban	l/100km		7.2
Composite	l/100km		9.3
CO ₂	g/km		217
Emission classification			EU5

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

¹⁾ Oil change quantity

²⁾ Fuel consumption and CO₂ emissions depend on the selected tyre format