

Specifications.

The new BMW 6 Series Coupé.

640i, 650i



BMW 640i Coupé		BMW 650i Coupé
Body		
Number of doors/seats	2 / 4	2 / 4
Length/Width/Height (unladen)	mm 4894 / 1894 / 1369	4894 / 1894 / 1369
Wheelbase	mm 2855	2855
Track front/rear	mm 1600 / 1665	1600 / 1665
Ground clearance	mm 124	124
Turning circle	m 11.7	11.7
Tank capacity	appr l 70	70
Cooling system incl. heating	l 10.2	14.4
Engine oil ¹⁾	l 6.5	9.0
Weight, unladen, to DINEU	kg 1685 / 1760	1795 / 1870
Max. load to DIN	kg 450	450
Max. perm. weight, overall	kg 2180	2290
Max perm axle load front/rear	kg 1090 / 1180	1165 / 1220
Max perm trailer load (12%) braked/unbraked	kg – / –	– / –
Perm roof load/trail download	kg 75 / –	75 / –
Luggage capacity	l 460	460
Air resistance	cd x A 0.30 x 2.23	0.30 x 2.23
Engine		
Configuration/No. of cyls. /valves	R / 6 / 4	V90 / 8 / 4
Engine technology	BMW TwinPower Turbo technology with twin-scroll charging, High Precision Injection direct petrol injection, Valvetronic fully variable valve control, double-VANOS fully variable camshaft control	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 2979	4395
Stroke/bore	mm 89.6 / 84.0	88.3 / 89.0
Compression ratio	:1 10.2	10.0
Fuel grade	At least RON 91	At least RON 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 in frame structure	
Brakes, rear	Single-piston aluminium floating-calliper disc brakes	
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: 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
Wheels front/rear	8J x 17 LM	8J x 18 LM

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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 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	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		7.2	5.4
Output per litre	kW/ltr		78.9	75.1
Acceleration	0–100 km/h	s	5.3	4.6
	0–1000 m	s	24.8	22.6
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 (BMW 640i), Electric Power Steering (EPS), detachable a/c compressor, tyres with reduced rolling resistance		
Fuel consumption EU ²⁾				
With standard wheels and tyres				
BMW 640i: 8J x 17 wheels, 225/55 R17 tyres (SA 2K1), BMW 650i: 8J x 18 wheels, 245/45 R18 tyres (SA 2SR)				
Urban	l/100km		10.3	11.9
Extra-urban	l/100km		6.0	6.6
Composite	l/100km		7.6	8.6
CO ₂	g/km		177	199
With 8J x 18 wheels and 245/45 R18 tyres and with winter tyres (SA 2SR, 9WR, 931)				
Urban	l/100km		10.4	–
Extra-urban	l/100km		6.1	–
Composite	l/100km		7.7	–
CO ₂	g/km		179	–
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		10.5	12.4
Extra-urban	l/100km		6.2	6.9
Composite	l/100km		7.8	8.9
CO ₂	g/km		181	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⁾ Fuel consumption and CO₂ emissions depend on the selected tyre format