

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 / 1657	1600 / 1657
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	14.6
Engine oil ¹⁾	l 6.5	8.5
Weight, unladen, to DINEU	kg 1660 / 1735	1770 / 1845
Max. load to DIN	kg 450	450
Max. perm. weight, overall	kg 2180	2280
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	0.31 x 2.23
Engine		
Configuration/No. of cyls. /valves	R / 6 / 4	V90 / 8 / 4
Engine technology	BMW TwinPower Turbo with Twin-Scroll turbocharger, direct injection and fully variable valve control (VALVETRONIC)	BMW TwinPower Turbo with two turbochargers and direct injection
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	300 / 407
at	rpm 5800 – 6000	5500 – 6400
Max torque	Nm 450	600
at	rpm 1300 – 4500	1750 – 4500
Electrical system		
Battery/installation	Ah/– 90 / luggage comp	105 / luggage comp
Alternator	A/W 210 / 2940	220 / 3080
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	
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: 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, 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	3.077
Performance					
Power-to-weight ratio		kg/kW		7.1	5.9
Output per litre		kW/ltr		78.9	68.3
Acceleration		0–100 km/h	s	5.3	4.9
		0–1000 m	s	24.8	23.2
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 (BMW 640i), ECO PRO mode (BMW 640i), 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	15.4
Extra-urban		l/100km		6.0	7.7
Composite		l/100km		7.6	10.5
CO ₂		g/km		177	245
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	15.5
Extra-urban		l/100km		6.2	7.7
Composite		l/100km		7.8	10.6
CO ₂		g/km		181	246
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