

Specifications.

The new BMW 6 Series Convertible.

640i, 650i



		BMW 640i Convertible	BMW 650i Convertible
Body			
No. of doors/seats		2 / 4	2 / 4
Length/width/height (unladen)	m	4894 / 1894 / 1365	4894 / 1894 / 1365
Wheelbase	m	2855	2855
Track, front/rear	m	1600 / 1665	1600 / 1665
Ground clearance	m	123	123
Turning circle	m	11.7	11.7
Tank capacity	ca. 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	1840 / 1915	1940 / 2015
Max load to DIN	kg	450	450
Max permissible weight	kg	2320	2420
Max axle load, front/rear	kg	1100 / 1290	1180 / 1310
Max trailer load, braked (12%/unbraked)	kg	- / -	- / -
Max roof load/towbar download	kg	- / -	- / -
Luggage comp capacity	l	300-350	300-350
Air resistance	c _x x A	0.31 x 2.23	0.32 x 2.23
Engine			
Configuration/No of cyls/valves		inline / 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
Effective 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 RON 91	min 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 swing-calliper disc brakes in frame structure	
Brakes, rear		Single-piston aluminium swing-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 equipment		Standard: airbags for driver and front passenger, side airbags with combined head airbags for driver and front passenger, 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, roll-over protection system, crash sensors, Tyre Defect Indicator	
Steering		Electric Power Steering (EPS) with Servotronic; optional: Integral Active Steering	
Steering ratio, overall	:1	17.2	17.2
Tyres, front/rear		225/55 R17 97Y RSC	245/45 R18 96Y RSC
Rims, 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
	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	3.295
Final drive	:1	3.231
Performance		
Power-to-weight ratio (DIN)	kg/kW	7.8
Output per litre	kW/ltr	78.9
Acceleration	0–100 km/h	s
	0–1000 m	s
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, air flap control (BMW 640i), Electric Power Steering (EPS), detachable a/c compressor, tyres with reduced rolling resistance	
Fuel consumption EU²⁾		
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	10.7
Extra-urban	l/100km	6.1
Composite	l/100km	7.8
CO ₂	g/km	181
With 8J x 18 wheels and 245/45 R18 tyres and with winter tyres (SA 2SR, 9WR, 931)		
Urban	l/100km	10.8
Extra-urban	l/100km	6.1
Composite	l/100km	7.9
CO ₂	g/km	183
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	10.9
Extra-urban	l/100km	6.2
Composite	l/100km	7.9
CO ₂	g/km	185
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