

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 / 1657	1600 / 1657
Ground clearance	m 123	123
Turning circle	m 11.7	11.7
Tank capacity	ca. l 70	70
Cooling system incl heating	l 9.3	11.4
Engine oil ¹⁾	l 6.5	8.5
Weight, unladen, to DINEU	kg 1840 / 1915	1940 / 2015
Max load to DIN	kg 450	450
Max permissible weight	kg 2290	2390
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 drag	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, direct injection, fully variable valve control (VALVETRONIC)	BMW TwinPower Turbo, direct injection
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
Output	kW/hp 235 / 320	300 / 407
at	rpm 5800-6000	5500-6400
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	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	
Diameter	mm 348 x 30 / vented	374 x 36 / vented
Brakes, rear	Single-piston aluminium swing-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 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 17.1	17.1
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 and V-Info+ (Traffic Info plus), 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 and Online Update Music Tracks			
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, Lane Change Warning, Lane Departure Warning, Speed Limit Info, Automatic/Advanced Emergency Call			
Transmission					
Type of gearbox		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	3.232	3.077
Performance					
Power-to-weight ratio		kg/kW	7.8	6.5	
Output per litre		kW/l	78.9	68.3	
Acceleration		0–100 km/h	s	5.7	5.0
		0–1000 m	s	25.2	23.8
in 4th gear		80–120 km/h	s	–	–
Top speed		km/h	250	250	
BMW					
BMW EfficientDynamics standard features		Brake Energy Regeneration with recuperation display, Auto Start-Stop function (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					
Urban		l/100km	10.9	15.5	
Extra-urban		l/100km	6.2	7.9	
Combined		l/100km	7.9	10.7	
CO ₂		g/km	185	249	
Emission rating			EU5	EU5	

Specifications apply to ACEA markets; data relevant to homologation applicable in part only to Germany (weight)

¹⁾ Oil change