

# Specifications.

## The new BMW 6 Series Convertible.

### 640i, 650i



		BMW 640i Convertible	BMW 650i Convertible
<b>Body</b>			
No. of doors/seats		2 / 4	2 / 4
Length/width/height	mm	4894 / 1894 / 1365	4894 / 1894 / 1365
Wheelbase	mm	2855	2855
Track, front/rear	mm	1600 / 1657	1600 / 1657
Ground clearance	mm	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 <sup>1)</sup>	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	kg	- / -	- / -
Luggage comp capacity	l	300-350	300-350
Air drag	c <sub>x</sub> x A	0.31 x 2.23	0.32 x 2.23
<b>Engine</b>			
Configuration/No of		Straight / 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
Bore/stroke	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
<b>Electrical system</b>			
Battery/Installation	Ah/-	90/luggage comp	105/luggage comp
Alternator	AW	210 / 2940	210 / 2940
<b>Driving dynamics and safety</b>			
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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<b>BMW ConnectedDrive</b>			
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		
<b>Transmission</b>			
Type of gearbox	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	3.232
<b>Performance</b>			
Power-to-weight ratio	kg/kW	7.8	6.5
Output per litre	kW/l	78.9	68.3
Acceleration	0-100	s	5.7
	0-1000	s	23.8
in 4th gear	80-120	s	-
Top speed	km/h	250	250
<b>BMW</b>			
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		
<b>Fuel consumption EU</b>			
Urban	l/100km	10.9	15.5
Extra-urban	l/100km	6.2	7.9
Combined	l/100km	7.9	10.7
CO <sub>2</sub>	g/km	185	249
Emission rating		EU5	EU5

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

<sup>1)</sup> Oil change