

# 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 (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 10,2	14.6
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 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 <sub>x</sub> x A 0.31 x 2.23	0.32 x 2.23
<b>Engine</b>		
Configuration/No of cyls/valves	inline / 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
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	300 / 407
at	rpm 5800-6000	5500-6400
Max 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	220 / 3080
<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 17.2	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, 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		7.8	6.5
Output per litre		kW/ltr		78.9	68.3
Acceleration	0–100 km/h	s		5.5	5.0
	0–1000 m	s		25.2	23.5
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 <sup>2)</sup>					
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	15.5
Extra-urban		l/100km		6.1	7.8
Composite		l/100km		7.8	10.6
CO <sub>2</sub>		g/km		181	248
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		6.2	–
Composite		l/100km		7.9	–
CO <sub>2</sub>		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	15.5
Extra-urban		l/100km		6.2	7.9
Composite		l/100km		7.9	10.7
CO <sub>2</sub>		g/km		185	249
Emission classification				EU5	EU5

Technical data valid for ACEA markets/part of data relevant to homologation only apply to Germany (weight)

<sup>1)</sup> Oil change quantity

<sup>2)</sup> Fuel consumption and CO<sub>2</sub> emissions depend on the selected tyre format