

Specifications.

The new BMW 6 Series Convertible.

650i xDrive



| BMW 650i xDrive Convertible | | | |
|--|--------|--|--|
| Body | | | |
| Number of doors/seats | | | 2 / 4 |
| Length/Width/Height (unladen) | mm | | 4894 / 1894 / 1365 |
| Wheelbase | mm | | 2855 |
| Track front/rear | mm | | 1600 / 1657 |
| Ground clearance | mm | | 123 |
| Turning circle | m | | 11.7 |
| Tank capacity | appr l | | 70 |
| Cooling system incl. heating | l | | 14.6 |
| Engine oil ¹⁾ | l | | 8.5 |
| Weight, unladen, to DINEU | kg | | 1985 / 2055 |
| Max. load to DIN | kg | | 450 |
| Max. perm. weight, overall | kg | | 2465 |
| Max perm axle load front/rear | kg | | 1240 / 1330 |
| Max perm trailer load (12%) braked/unbraked | kg | | - / - |
| Perm roof load/trail download | kg | | - / - |
| Luggage capacity | l | | 300-350 |
| Air resistance | cd x A | | 0.32 x 2.23 |
| Engine | | | |
| Configuration/No. of cyls./valves | | | V90 / 8 / 4 |
| Engine technology | | | BMW TwinPower Turbo with two turbochargers and direct injection |
| Capacity | cc | | 4395 |
| Stroke/bore | mm | | 88.3 / 89.0 |
| Compression ratio | :1 | | 10.0 |
| Fuel grade | | | At least RON 91 |
| Max output | kW/hp | | 300 / 407 |
| at | rpm | | 5500 - 6400 |
| Max torque | Nm | | 600 |
| at | rpm | | 1750 - 4500 |
| Electrical system | | | |
| Battery/installation | Ah/- | | 105 / luggage comp |
| Alternator | A/W | | 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 | | 374 x 36 / vented |
| Brakes, rear | | | Single-piston aluminium floating-calliper |
| Diameter | mm | | 345 x 24 / vented |
| Driving stability systems | | | Fitted as 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, cross-linking of the four-wheel drive with the stability control system DSC within the Integrated Chassis Management (ICM), optional: Adaptive Drive |
| Safety features | | | 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 | | | Hydraulic rack-and-pinion steering with Servotronic |
| Overall steering transmission | :1 | | 18.0 |
| Tyres front/rear | | | 245/45 R18 96Y RSC |
| Wheels front/rear | | | 8J x 18 LM |

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|---|-------------|--|-------|
| BMW ConnectedDrive | | | |
| Comfort | | Extras: BMW Assist incl. Enquiry Service, remote-control functions, Real-Time Traffic Information, BMW TeleServices, integration of mobile devices | |
| Infotainment | | Extras: 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 | | Extras: 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, 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 |
| | 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 | 3.317 |
| Final drive | | :1 | 3.077 |
| Performance | | | |
| Power-to-weight ratio | kg/kW | | 6.6 |
| Output per litre | kW/l | | 68.3 |
| Acceleration | 0–100 km/h | s | 4.9 |
| | 0–1000 m | s | 23.5 |
| In 4th gear | 80–120 km/h | s | – |
| Top speed | km/h | | 250 |
| BMW EfficientDynamics | | | |
| BMW EfficientDynamics measures as standard | | Brake Energy Regeneration with recuperation display, intelligent lightweight construction, on-demand operation of ancillary units, flow-controlled power-steering pump, detachable a/c compressor, tyres with reduced rolling resistance | |
| Fuel consumption EU²⁾ | | | |
| With standard wheels and tyres 8J x 18 wheels, 245/45 R18 tyres (SA 2SR) | | | |
| Urban | l/100km | | 16.6 |
| Extra-urban | l/100km | | 8.4 |
| Composite | l/100km | | 11.4 |
| CO ₂ | g/km | | 266 |
| 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 | | 16.6 |
| Extra-urban | l/100km | | 8.5 |
| Composite | l/100km | | 11.5 |
| CO ₂ | g/km | | 267 |
| 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