

The 2006  
BMW 6 Series



650i Coupe  
650i Convertible

The Ultimate  
Driving Machine®





**Go ahead. You deserve this.**

**Air to the throne.**



**The 6 Series Convertible has only one equal: the 6 Series Coupe.**



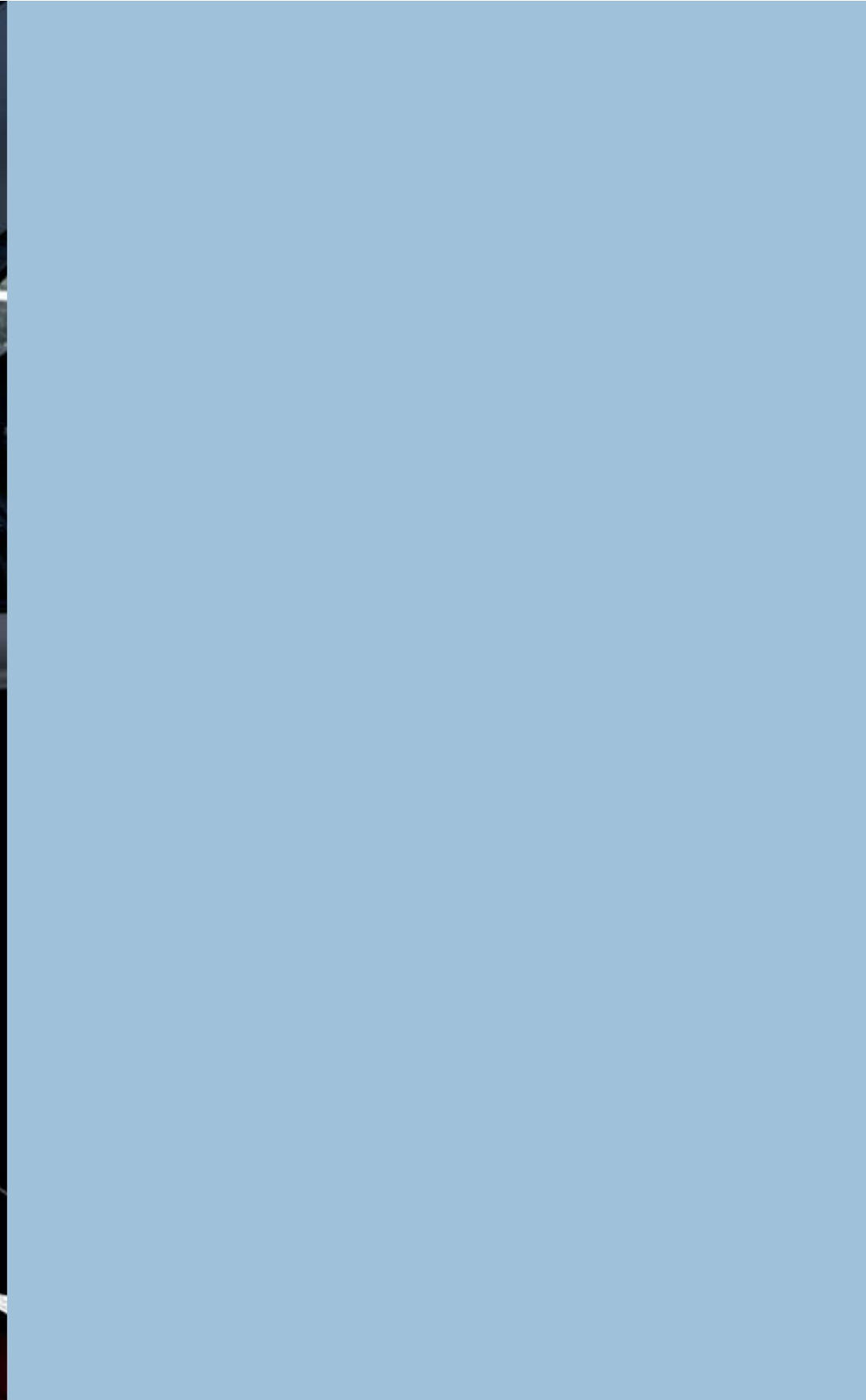


**The return of the king.**

**Visceral power. Surgical precision.  
It's less a car than a driving instrument.**











# inspired

**The 650i's mighty V-8 engine is the result of generations of inspired engineers.**

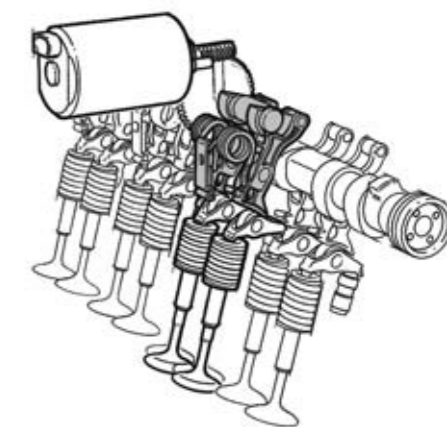
For nearly nine decades, BMWs have been developed by generations of engineers who are passionate about driving. The advanced technology in today's BMWs is a product of that passion. And, as the name "Bavarian Motor Works" implies, in a BMW, the engine takes center stage.

In its striving to make automobiles ever more satisfying to drive, BMW has endowed the 2006 650i with the most powerful V-8 in BMW's current lineup. Nearly a half-liter larger than its award-winning<sup>1</sup> predecessor, this new 4.8-liter V-8 commands 360 horsepower at 6300 rpm, and 360 lb-ft of torque at 3400 rpm. Like all BMW gasoline engines, this V-8 is naturally aspirated, and thanks to unique BMW technology, it delivers ultra-refined power and unmatched performance without sacrificing efficiency.

One of these remarkable technologies is Valvetronic. Rather than regulating engine performance by using throttle butterflies, which reduce fuel efficiency, this innovative system allows the engine to "breathe" more easily via continuously variable valve lift control. This increases overall fuel efficiency, especially at "low-load" operation (driving conservatively and idling). Another inspired technology incorporated into every BMW engine is Double-VANOS, an engine management system that allows the engine to "steplessly" choose the valve timings for both intake and exhaust camshafts. Double-VANOS controls the four camshafts in this V-8 to deliver more low- to medium-speed torque for strong acceleration, added flexibility for better highway performance, and a quieter, smoother engine at idle. Another power-increasing feature found in the 650i is a two-stage intake manifold, providing two different intake lengths: one for low to medium speeds, and the other for high engine speeds (rpm).

The full power of this exceptional V-8 is harnessed through a choice of three 6-speed transmissions: a finely tuned manual, standard; an optional STEPTRONIC automatic; and the optional, Formula One-derived Sequential Manual Gearbox (SMG), which is available only with the Sport Package.

<sup>1</sup>BMW's 4.4-liter V-8 named "International Engine of the Year 2002" by a panel of 40 automotive experts. International Engine of the Year Awards.



Valvetronic fully variable valve lift control enhances the engine's "breathing" by eliminating the throttle valve, thereby increasing efficiency.

## Equipment



■ **Xenon Adaptive Headlights** provide optimum road illumination around corners, thanks to an electromechanical control system that directs the headlights into and through the bend as soon as the vehicle begins cornering. This feature is combined with **Xenon low- and high-beam headlights**, which provide brilliant clarity of the road ahead and to the side at night and in conditions with poor visibility. The dynamic auto-leveling feature adjusts for varying passenger and cargo loads, helping to keep headlight glare out of the eyes of oncoming drivers.



■ **Halogen free-form foglights**, built into the front air dam, enhance your margin of safety in bad visibility. Ellipsoid free-form technology provides for even light distribution on the road.



■ **High-pressure headlight cleaning system** helps keep headlights clear of ice, mud, road salt and other coatings, for maximum road illumination and enhanced driving safety.



■ **Side indicator lights** add to the 6 Series' distinctive individuality.



■ **Door handles** in body color combine sleek design and comfortable use.

■ Standard equipment

## Equipment



■ **18 x 8.0 Double Star Spoke (Styling 120) cast alloy wheels and 245/45R-18 all-season run-flat tires.**



□ **19 x 8.5 front, 19 x 9.0 rear Ellipsoid Spoke (Styling 121) cast alloy wheels and 245/40R-19 front, 275/35R-19 rear performance run-flat tires.<sup>1</sup>**

<sup>1</sup> Due to low-profile tires, please note: wheels, tires and suspension parts are more susceptible to road hazard and consequential damages. Performance tires are not recommended for driving in snow and icy road conditions.



■ **Tilting glass panel roof** gives the interior an even brighter, more spacious feel. For greater ventilation, it tilts up; an electric sliding interior roof liner keeps the hot sun out. (645Ci Coupe only)






■ **Triple-lined Convertible softtop** is fully automatic. Simply press a button at the front of the center console to raise or lower. The top automatically unlatches from the header and folds down neatly. An interior lining helps reduce wind noise and enhances insulation. The heated, glass rear window can remain up when the top is down, acting as a windscreen. Available in Black or Gray. (645Ci Convertible only)



■ **Adaptive Brake Lights** help following drivers judge your braking situation. Under light braking, the lower three rows of long-life LEDs in the rear brake-light unit illuminate. During panic braking, Dynamic Brake Control (DBC) signals for the two upper rows of LEDs to illuminate.

## Color combinations

Interior colors		Dakota Leather		
Upholstery colors		Cream Beige	Chateau	Black
Exterior colors				
300	Alpine White Non-metallic	● ◆	● ◆ ■	● ◆
668	Jet Black Non-metallic	● ◆	● ◆	● ◆
354	Titanium Silver Metallic	● ◆ ■	● ◆ ■	● ◆ ■
A14	Mineral Silver Metallic	● ◆ ■		● ◆ ■
A08	Silver Gray Metallic	● ◆ ■	● ◆ ■	● ◆ ■
440	Stratus Gray Metallic	● ◆ ■		● ◆ ■
A13	Atlantic Blue Metallic	● ◆		● ◆
A35	Monaco Blue Metallic	● ◆		● ◆
A39	Barbera Red Metallic		● ◆	● ◆
475	Black Sapphire Metallic	● ◆	● ◆	● ◆
Interior trim				
Ruthenium Pearl-Gloss <sup>1</sup>				
Dark Birch Wood, High-Gloss <sup>2</sup>				
Light Birch Wood, High-Gloss <sup>2</sup>				

<sup>1</sup> Standard in 650i.

<sup>2</sup> No-cost option in 650i.

● 650i Coupe interior color choices.

◆ 650i Convertible interior color choices offered with 388 Black Softtop (standard).

■ 650i Convertible interior color choices offered with 389 Gray Softtop (no-cost option).

Here are your exterior and interior color choices. Review the color swatches to compare various combinations indicated in the chart. Since exterior paint samples and colors printed on paper can never perfectly match paint finishes and upholstery, we suggest you visit your local authorized BMW center to view the actual colors.

## Standard equipment | Optional equipment

Performance and efficiency	650i Coupe	650i Convertible
4.8-liter DOHC (4 cam) 360-hp 32-valve V-8 engine with Valvetronic	●	●
Aluminum block and cylinder heads	●	●
Direct ignition system with knock control	●	●
Two-stage intake manifold	●	●
Double-VANOS steplessly variable valve timing	●	●
Electronically controlled engine cooling (map cooling)	●	●
6-speed manual transmission with Dynamic Driving Control (Sport button)	●	●
6-speed STEPTRONIC three-mode automatic transmission including Sport and Manual shift modes, Dynamic Driving Control (Sport button), and Adaptive Transmission Control (ATC) <sup>1</sup>	○	○
6-speed Sequential Manual Gearbox (SMG) with Automated and Manual modes. Includes Dynamic Driving Control (Sport button) <sup>1,2</sup>	○	○
<b>Handling, ride and braking</b>		
Vehicle-speed-sensitive variable-assist, variable-ratio rack-and-pinion power steering	●	●
Aluminum front and rear subframes	●	●
Twin-tube gas-pressure shock absorbers	●	●
4-wheel ventilated anti-lock disc brakes (ABS) with Dynamic Brake Control (DBC)	●	●
Sport suspension	●	●
Active Roll Stabilization (ARS)	●	●
Active Steering with variable steering ratio	○	○
Dynamic Stability Control (DSC), including Dynamic Traction Control (DTC), electronic brake proportioning and cornering/braking stability enhancement	●	●
<b>Exterior and aerodynamics</b>		
18x8.0 Double Star Spoke (Styling 120) cast alloy wheels, 245/45R-18 all-season run-flat tires <sup>3</sup>	●	●
19x8.5 front, 19x9.0 rear Ellipsoid (Styling 121) cast alloy wheels, 245/40R-19 front, 275/35R-19 rear performance run-flat tires <sup>3,4</sup>	□	□
Flat Tire Warning	●	●
Rain-sensing windshield wipers with adjustable speed	●	●
Xenon Adaptive Headlights with dynamic auto-leveling	●	●

Exterior and aerodynamics (continued)	650i Coupe	650i Convertible
White turn-signal indicators	●	●
Headlight washing system	●	●
Halogen free-form foglights	●	●
Park Distance Control	●	●
Aluminum hood and doors	●	●
Power adjustable, heated, body-colored side-view mirrors with automatic-dimming function	●	●
Thermoplastic front side fenders and sheet molding compound trunk lid	●	●
Choice of standard or metallic paints	●	●
Green band windshield <sup>5</sup>	●	●
Chromeline exterior trim	●	●
Shadowline High-Gloss exterior trim	□	□
Fully lined fabric softtop with glass rear window and electric rear-window defroster		●
<b>Instrumentation and controls</b>		
Multi-function 3-spoke sport steering wheel with controls for audio system, cruise control, and Bluetooth® wireless connection and accessory phone <sup>6</sup>	●	●
Electronic analog speedometer and tachometer and LCD main and trip odometers	●	●
Expanded Check Control vehicle monitor system	●	●
iDrive system with on-board computer	●	●
Head-Up Display (HUD) <sup>7</sup>	○	○
Exterior temperature display with warning for freezing temperatures	●	●
Programmable Cruise Control	●	●
Active Cruise Control (ACC)	○	○
BMW on-board navigation system with voice feedback and Voice Activation	●	●
Engine Start/Stop button	●	●

- Standard equipment
- Optional equipment
- Sport Package
- ◆ Cold Weather Package
- Premium Sound Package

<sup>1</sup>No-cost option.

<sup>2</sup>Requires Sport Package.

<sup>3</sup>Run-flat tires do not come with a spare wheel and tire.

<sup>4</sup>Due to low-profile tires, please note: wheels, tires and suspension parts are more susceptible to road hazard and consequential damages. Performance tires are not recommended for driving in ice and snow.

<sup>5</sup>Not available with Head-Up Display.

<sup>6</sup>If so equipped.

<sup>7</sup>Not available with green band windshield.

## Standard equipment | Optional equipment

Interior seating and trim	650i Coupe	650i Convertible
Dakota Leather upholstery and door trim	●	●
Ruthenium Pearl-Gloss finish interior trim	●	●
Dark Birch High-Gloss wood interior trim <sup>8</sup>	○	○
Light Birch High-Gloss wood interior trim <sup>8</sup>	○	○
8-way power front seats with 2-way adjustable headrests	●	●
3-setting memory system for driver's seat, side-view mirrors, and steering wheel position	●	●
4-way power lumbar support for front seats	●	●
8-way power front sport seats with adjustable headrests and manual thigh support	□	□
Adjustable front center armrest	●	●
Color-matching floormats	●	●
<b>Comfort and convenience</b>		
Automatic climate control with separate left/right temperature and air distribution controls, with automatic air recirculation	●	●
Micro-filter ventilation system with replaceable active-charcoal filters	●	●
Tilting Glass Panel roof with electric sliding roofliner	●	●
Automatic-dimming inside and outside rear-view mirrors	●	●
Power tilt and telescopic steering wheel with automatic tilt-up	●	●
Power windows with key-off and "one-touch" up and down operation both front and rear, anti-trapping feature, opening from remote, and closing from exterior lock	●	●
Ambient interior lighting	●	●
Dual front sun visors with illuminated mirrors	●	●
Cupholders front and rear	●	●
Heated driver's door lock and rear window defroster	●	●
Heated front seats	○/◆	○/◆
Heated steering wheel	◆	◆
Voice Activation	●	●
Ski bag	◆	◆
Fully finished trunk with tool kit and interior trunk release	●	●
Integrated 3-button Universal garage-door opener	●	●
Glove compartment with rechargeable take-out flashlight	●	●
Power softtop and heated rear glass window deflector		●

Audio system	650i Coupe	650i Convertible
Anti-theft AM/FM stereo/CD audio system with Auto-Store, FM diversity antenna system, and MP3 capabilities <sup>9</sup>	●	●
Logic7 sound system with Surround Sound, Digital Sound Processing (including two subwoofers), center dash speaker, and MP3 capabilities <sup>9</sup>	■	■
6-disc CD player mounted in the glove compartment	■	■
Pre-wiring for BMW center installation of BMW 6-disc CD changer, BMW mobile telephone, and satellite radio installation	●	●
SIRIUS satellite radio	○	○
High Definition Radio <sup>9</sup>	○	○
<b>Safety and security</b>		
Driver's and passenger's front airbag supplemental restraint system (SRS) with dual-threshold deployment, 2-stage Smart Airbags	●	●
Head Protection System	●	
Active knee protection airbags	●	●
Door-mounted side-impact airbags	●	●
Front safety belts with automatic tensioners and force limiters	●	●
Latch attachment for child-restraint safety installation	●	●
Automatic-locking retractors (ALR) on all passenger seat safety belts (for installation of child-restraint seats)	●	●
Interlocking door anchoring system to help protect against door intrusion in side impacts	●	●
Intelligent Safety and Information System (ISIS) for deployment of safety systems	●	●
Rollover Protection System		●
BMW Assist with Bluetooth® integrated wireless communication system	●	●
Impact sensor that activates Battery Safety Terminal disconnect of alternator, fuel pump and starter from battery; turns on hazard lights, interior lights and unlocks doors	●	●
Adaptive Brake Lights	●	●
Coded Driveaway Protection (prevents engine start when your key with constantly changing electronic code is not used)	●	●
Remote keyless entry security alarm system with selective unlocking and double-lock feature (programmed at BMW center), remote trunk opening, interior motion detector, and panic feature	●	●
<b>BMW Maintenance Program</b>		
BMW Full Maintenance <sup>10</sup>	●	●

- Standard equipment
- Optional equipment
- Sport Package
- ◆ Cold Weather Package
- Premium Sound Package

<sup>8</sup>No-cost option.

<sup>9</sup>Available October 2005 production.

<sup>10</sup> Full Maintenance Program covers all factory-recommended maintenance, as determined by the Service Interval Indicator for 4 years or 50,000 miles, whichever comes first. Full Maintenance Program includes items that need replacement due to normal wear and tear, provided wear and tear exceeds BMW specifications. This includes items such as brake pads, brake rotors and wiper blades that are not covered by the original New Vehicle Limited Warranty. Any adjustments required due to normal operating conditions are also included. For exclusions and limitations, refer to the Service and Warranty Information booklet that came with your new BMW, or see your authorized BMW center for details.

## Standard equipment | Optional equipment

	650i Coupe	650i Convertible
<b>Sport Package</b>		
19 x 8.5 front, 19 x 9.0 rear Ellipsoid (Styling 121) cast alloy wheels, 245/40R-19 front, 275/35R-19 rear performance run-flat tires <sup>1</sup>	<input type="checkbox"/>	<input type="checkbox"/>
8-way power front sport seats with adjustable headrests and manual thigh support	<input type="checkbox"/>	<input type="checkbox"/>
Shadowline High-Gloss exterior trim	<input type="checkbox"/>	<input type="checkbox"/>
<b>Cold Weather Package</b>		
Heated front seats	◆	◆
Heated steering wheel	◆	◆
Ski bag	◆	◆
<b>Premium Sound Package</b>		
Logic7 sound system with Surround Sound, Digital Sound Processing (including two subwoofers), center dash speaker, and MP3 capabilities <sup>2</sup>	■	■
6-disc CD player mounted in the glove compartment	■	■

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<sup>1</sup> Due to low-profile tires, please note: wheels, tires and suspension parts are more susceptible to road hazard and consequential damages. Performance tires are not recommended for driving in snow and icy road conditions. Run-flat tires do not come equipped with a spare wheel and tire.

<sup>2</sup>MP3 capabilities available October 2005 production.

- Sport Package
- ◆ Cold Weather Package
- Premium Sound Package

## Technical features | Specifications

		650i Coupe	650i Convertible
<b>Dimensions</b>			
Length/width/height	inches	190.2/73.0/54.1	190.2/73.0/54.1
Wheelbase	inches	109.4	109.4
<b>Weight</b>			
Unladen	lb.	3814 (3814)	4277 (4277)
Weight distribution, front/rear	%	51.6/48.4 (51.7/48.3)	48.3/51.7 (48.4/51.6)
<b>Engine</b>			
Liter/type		4.8/V-8	4.8/V-8
Bore/stroke	inches	3.66/3.48	3.66/3.48
Nominal output/rpm	hp	360 @ 6300	360 @ 6300
Max torque/rpm	lb-ft	360 @ 3400	360 @ 3400
Compression ratio	:1	10.5	10.5
Fuel grade		Unleaded premium	Unleaded premium
<b>Performance</b>			
Acceleration 0 – 60 mph <sup>2</sup>	sec	5.3 (5.4)	5.6 (5.7)
Top speed <sup>3</sup>	mph	150	150
Aerodynamic drag coefficient	C <sub>d</sub>	0.30	0.32
<b>Fuel consumption<sup>4</sup></b>			
City/Highway, Manual or SMG	mpg	TBD [TBD]	TBD [TBD]
City/Highway, Automatic	mpg	TBD	TBD
<b>Wheels</b>			
Standard tire dimensions		245/45R-18	245/45R-18
Standard wheel dimensions	inches	18 x 8.00	18 x 8.00
Material		Light-alloy	Light-alloy
Optional tire dimensions <sup>1</sup>		245/40R-19 front 275/35R-19 rear	245/40R-19 front 275/35R-19 rear
Optional wheel dimensions	inches	19 x 8.5 front 19 x 9.0 rear	19 x 8.5 front 19 x 9.0 rear
Material		Light-alloy	Light-alloy

Figures in ( ) apply to models with 6-speed automatic transmission.

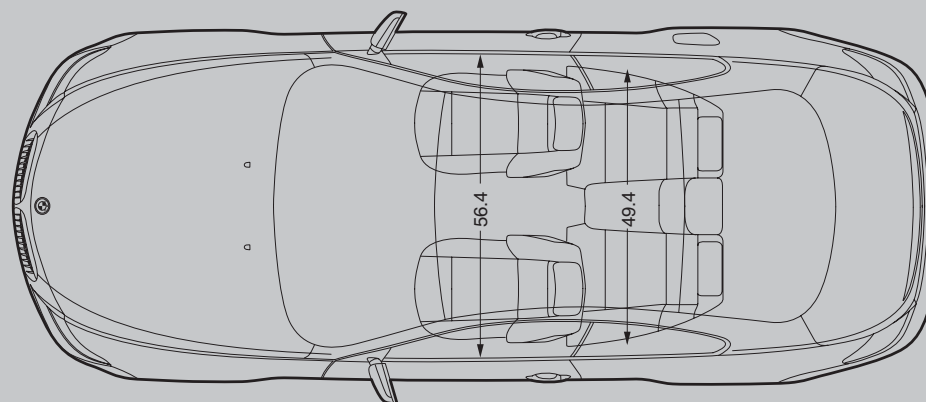
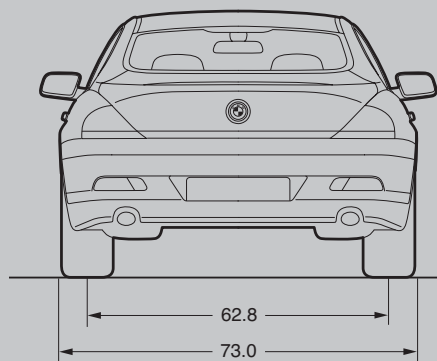
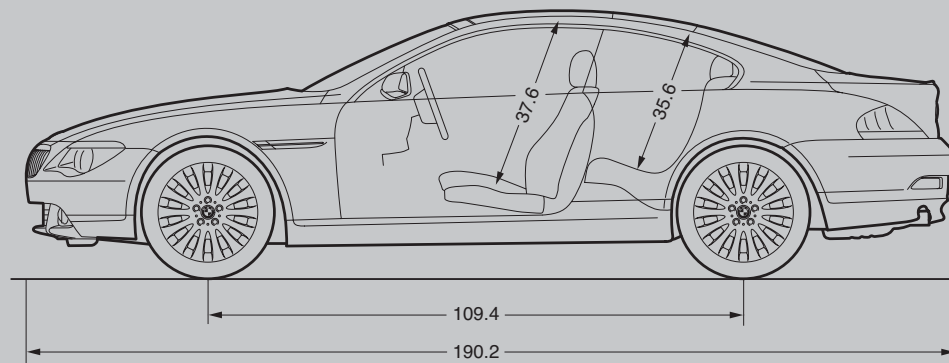
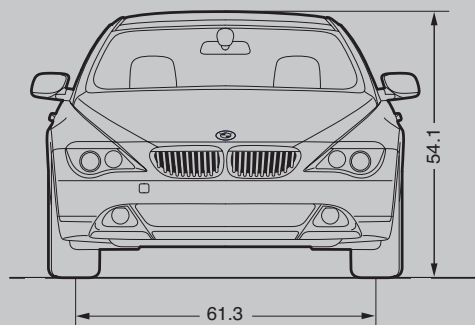
Figures in [ ] apply to models with 6-speed SMG transmission.

<sup>2</sup> BMW AG test results. Actual acceleration results may vary, depending on specification of vehicle; road and environmental conditions; testing procedures and driving style. These results should be used for comparison only and verification should not be attempted on public roads. **BMW urges you to obey all posted speed laws and always wear safety belts.**

<sup>3</sup> Top speed limited electronically.

<sup>4</sup> EPA-estimated figures are for comparison purposes only. Your actual mileage will vary, depending upon speed, driving habits, trip length and driving conditions; actual mileage will most likely be lower.

## 6 Series Coupe

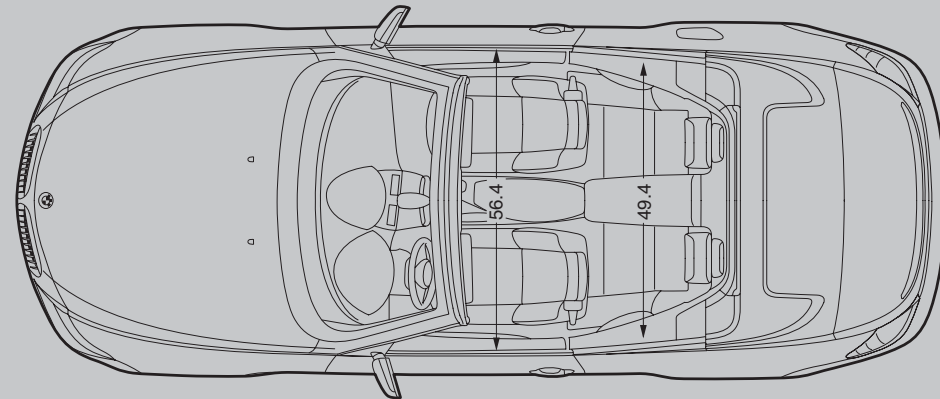
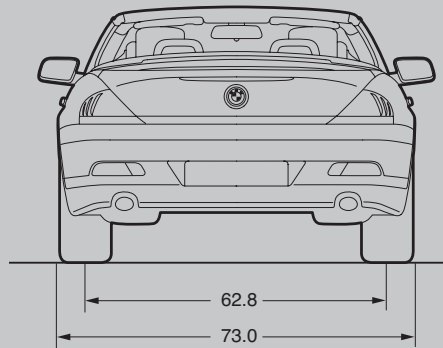
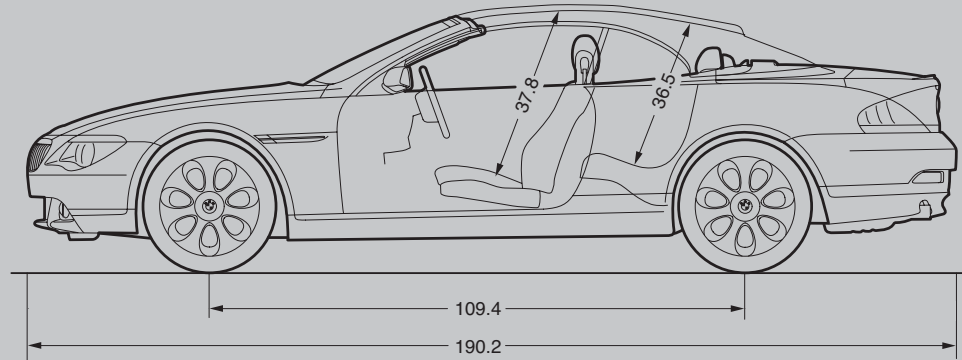
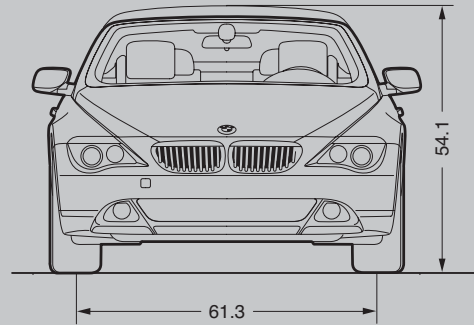


All dimensions are shown in inches and apply to models with standard wheels.  
NOTE: Measurements do not include vehicle width from mirror to mirror.

Wheels shown in illustrations are not available in the U.S.



## 6 Series Convertible



All dimensions are shown in inches and apply to models with standard wheels.  
NOTE: Measurements do not include vehicle width from mirror to mirror.

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