

BMW of North America, LLC

Press Information



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2006 BMW 7 SERIES: Technical specifications

Bold within table indicates new specification for 2006 (750i/Li models vs. 2005 745i/Li).

General	750i	750Li	760i	760Li
Curb weight, lb.	4486	4552	4762	4905
Weight distribution, front/rear, %	49.9/50.1	49.9/50.1	51.6/48.4	51.0/49.0
Wheelbase, in.	117.7	123.2	117.7	123.2
Track, front/rear, in.	62.1/ 62.8 ^{1, 2}			
Length, in.	198.4	203.9	198.4	203.9
Width, in.	74.9 ¹			
Height, in.	58.7	58.4	58.7	58.4

Accommodations

Seating capacity, persons	5 ¹			
Shoulder room, front/rear, in.	59.3/58.7	59.3/58.9	59.3/58.7	59.3/58.9
Head room, front/rear, in.	39.2/38.5 ¹			
Leg room, front/rear	41.3/37.2	41.3/43.4	41.3/37.2	41.3/43.4

¹ – Specification applies to all models.

² – With 18-in. wheels (not available on 760i).

–more–

EPA interior volume, cu ft.	104.0	111.0	104.0	111.0
EPA cargo volume, cu ft.	18.0	18.0	18.0	18.0 ³
Body	750i	750Li	760i	760Li
Type	4-door sedan ¹			
Aerodynamic drag coefficient (C _D)	0.29 ¹			
EPA size classification	Large ¹			

Engine & electrical	750i	750Li	760i	760Li
Engine type	DOHC 32-valve (4-cam) V-8 ⁴		DOHC 48-valve (4-cam) V-12 ⁵	
Engine features	Valvetronic variable valve lift & Double VANOS ⁶ variable valve timing ¹ 2-stage induction sys. ⁴ Direct fuel injection ⁵			
Cylinder block & heads	Aluminum ¹			
Bore x stroke, mm/in.	93.0 x 88.3/3.66 x 3.48 ⁴		89.0 x 80.0/3.50 x 3.15 ⁵	
Displacement, cc/cu in.	4799/293 ⁴		5972/364 ⁵	
Compression ratio	10.5:1 ⁴		11.3:1 ⁵	
Power @ rpm, hp	360 @ 6300 ⁴		438 @ 6000 ⁵	
Torque @ rpm, lb-ft.	360 @ 3400 ⁴		444 @ 3950 ⁵	
Engine-management system	Motronic ME9 ⁴		Motronic MED9 ⁵	
Fuel requirement	Premium unleaded ²			
Fuel capacity, U.S. gal.	23.3 ¹			
Battery capacity, amp-hr.	90 ¹			
Alternator output, amp./W	180/2520 ¹			

³ – Optional rear climate control & coolbox reduce cargo volume.

⁴ – Specification applies to 750i & 750Li.

⁵ – Specification applies to 760i & 760Li.

⁶ – VANOS = **VA**riable **NO**ckenwellen **S**teuerung = variable camshaft control, or variable valve timing.

Drivetrain		750i	750Li	760i	760Li
Drive system		Front engine/rear drive ¹			
Automatic transmission		ZF 6 HP 26, 6-speed ¹			
Ratios:	1st	4.17:1 ¹			
	2nd	2.34:1 ¹			
	3rd	1.52:1 ¹			
	4th	1.14:1 ¹			
	5th	0.87:1 ¹			
	6th	0.69:1 ¹			
	Reverse	3.40:1 ¹			
Final drive ratio		3.38:1 ⁴		3.15:1 ⁵	
Chassis		750i	750Li	760i	760Li
Body/frame construction		Unitized all-steel structure with aluminum hood & front fenders ¹			
Front suspension		Strut-type in aluminum; double-pivot lower arms, coil springs, twin-tube gas-pressure shock absorbers, Active Roll Stabilization, aluminum subframe (750i/Li with Adaptive Ride Package, 760i/Li std.: Electronic Damping Control; 750i/Li with Sport Package: sport suspension calibration)			
Rear suspension		4-link Integral Link suspension in aluminum, coil springs, twin-tube gas-pressure shock absorbers, Active Roll Stabilization, aluminum subframe (750i/Li with Adaptive Ride Package, 760i/Li std.: self-leveling air springs & Electronic Damping Control; 750i/Li with Sport Package: sport suspension calibration)			
Steering type		Rack & pinion, vehicle-speed-sensitive power assist & variable ratio ¹			
Turns lock-to-lock		3.07 ¹			
Turning circle, ft.		39.7	41.3	39.7	41.3

Chassis (cont.)	750i	750Li	760i	760Li
4-wheel ventilated disc brakes:				
Diameter x thickness, mm/in.	348 x 30/13.7 x 1.18 front / 345 x 24/13.6 x 0.94 rear ¹			
Assist	Vacuum ¹			
Wheels: standard	Cast alloy, 18 x 8.0 ⁴		Cast alloy, 20 x 9.0 F/ 20 x 10.0 R	Cast alloy, 19 x 9.0 F/ 19 x 10.0 R
optional	Cast alloy, 19 x 9.0 F / 19 x 10.0 R ⁴ (ZSP or stand-alone option)		NA	Forged alloy, 18 x 8.0
Tires: standard	245/50R-18 V-rated all-season ^{4, 7}		760i: 245/40R-20 F/ 275/35R-20 R Y-rated performance ⁷ 760Li: 245/45R-19 F/ 275/40R-19 R W-rated performance ⁷	
optional	245/45R-19 front / 275/40R-19 rear W-rated performance ^{4, 7} 245/50R-18 V-rated all-season run-flat		760Li only: 245/50R-18 V-rated all-season	
Stability-enhancement system	Dynamic Stability Control (DSC), including Dynamic Traction Control, antilock braking (ABS), Dynamic Brake Control & cornering/braking stability enhancement ¹			

⁷ – Due to low-profile tires, please note: Wheels, tires and suspension parts are more susceptible to road hazard and consequential damages.

Performance data	750i	750Li	760i	760Li
Acceleration, 0-60 mph, sec. ⁸	5.8	5.8	5.4	5.4
Top speed, mph	150 (electronically limited) ¹			
Fuel economy, EPA est. MPG, city/highway	TBD ⁴		15/23 ⁵	

F – Front

R – Rear

ZSP – Sport Package

⁸ – 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 limits and to please wear your safety belt at all times.