

BMW

U.S. Media Information

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Technical Data.

2012 BMW 7 Series.

		740i	750i	750i xDrive
		Sedan	Sedan	Sedan
11.01.2011		Auto 6 Speed	Auto 6 Speed	Auto 6 Speed
Body				
No. of Doors / Seating Capacity	-	4 / 5	4 / 5	4 / 5
Vehicle Length	mm / inch	5074 / 199.8	5074 / 199.8	5074 / 199.8
Vehicle Width	mm / inch	1902 / 74.9	1902 / 74.9	1902 / 74.9
Vehicle Height, Unloaded	mm / inch	1482 / 58.3	1482 / 58.3	1482 / 58.3
Wheelbase	mm / inch	3070 / 120.9	3070 / 120.9	3070 / 120.9
Turning Circle	m / ft	12.2 / 40.0	12.2 / 40.0	12.5 / 41.0
Track, Front	mm / inch	1611 / 63.4	1611 / 63.4	1611 / 63.4
Track, Rear	mm / inch	1650 / 65.0	1650 / 65.0	1650 / 65.0
Ground Clearance	mm / inch	147 / 5.79	147 / 5.79	144 / 5.67
Width at Shoulderheight, Front	mm / inch	1503 / 59.2	1503 / 59.2	1503 / 59.2
Width at Shoulderheight, Rear	mm / inch	1458 / 57.4	1458 / 57.4	1458 / 57.4
Effective Leg Room, Front	mm / inch	1048 / 41.3	1048 / 41.3	1048 / 41.3
Effective Leg Room, Rear	mm / inch	987 / 38.9	987 / 38.9	987 / 38.9
Effective Head Room, Front	mm / inch	1032 / 40.6	1032 / 40.6	1032 / 40.6
Effective Head Room, Rear	mm / inch	978 / 38.5	978 / 38.5	978 / 38.5
Trunk Volume acc SAE1100	ft³	14	14	14
Fuel Capacity	L / gal	82 / 21.7	82 / 21.7	82 / 21.7
Curb Weight	kg / lbs	1970 / 4344	2070 / 4564	2140 / 4718
Weight Distribution, Front / Rear	%	50.3 / 49.7	51.4 / 48.6	53.8 / 47.2
Gross Vehicle Weight Rating (GVWR)	kg / lbs	2470 / 5446	2585 / 5699	2650 / 5842
Payload	kg / lbs	480 / 1058	480 / 1058	480 / 1058
Axle Load Limit, front	kg / lbs	1150 / 2536	1265 / 2789	1330 / 2932
Axle Load Limit, rear	kg / lbs	1390 / 3065	1385 / 3053	1390 / 3064
Towing Capacity	kg / lbs	- / -	- / -	- / -
Roof Load Limit	kg / lbs	100 / 220	100 / 220	100 / 220
Drag Coefficient	Cd	0.30	0.31	0.32
Engine				
		N54 HP	N63	N63
Engine Type / Cylinder / Valves per Cylinder	-	Inline / 6 / 4 VANOS	V 90° / 8 / 4 VANOS	V 90° / 8 / 4 VANOS
Engine Management System	-	MSD87 Direct Injection	MSD 85.1 Direct Injection	MSD 85.1 Direct Injection
Induction System/Boost Pressure	-	twin turbo	twin turbo reverse flow "hot V"	twin turbo reverse flow "hot V"
Boost Pressure	Bar	0.7	0.6	0.6
Displacement	cm³ / inch³	2979 / 181.8	4395 / 268.2	4395 / 268.2
Stroke	mm / inch	89.6 / 3.53	88.3 / 3.48	88.3 / 3.48
Bore	mm / inch	84 / 3.31	89 / 3.50	89 / 3.50
Power	SAE hp / rpm	315 / 5800-6000	400 / 5500-6400	400 / 5500-6400
Torque	ft lbs / rpm	330 / 1600-4500	450 / 1750-4500	450 / 1750-4500
Compression Ratio / Fuel type	-	10.2 / Premium	10.0 / Premium	10.0 / Premium
Chassis and Suspension				
Codification of Reference Gearbox	-	6HP19 TU	6HP26 TU	6HP26 TU
Gear Ratios I	-	4.171	4.171	4.171
II	-	2.340	2.340	2.340
III	-	1.521	1.521	1.521
IV	-	1.143	1.143	1.143
V	-	0.867	0.867	0.867
VI	-	0.691	0.691	0.691
VII	-	-	-	-
VIII	-	-	-	-
Reverse Ratio	-	3.403	3.403	3.403
Final Drive Ratio	-	-	3.46	3.46
Steering Type / Ratio	-	Rack-and-pinion / 19.1	Rack-and-pinion / 19.1	Rack-and-pinion / 19.1
Front Brakes / Diameter	- / mm / inch	Vent. Disc / 348x36 / 13.7x1.4	Vent. Disc / 374 / 14.7	Vent. Disc / 374 / 14.7
Rear Brakes / Diameter	- / mm / inch	Vent. Disc / 345x24 / 13.6x0.9	Vent. Disc / 370 / 14.6	Vent. Disc / 370 / 14.6
Tire Type, Front	-	245/50 R18 100V RSC AS	245/50 R18 100V RSC AS	245/50 R18 100V RSC AS
Tire Type, Rear	-	245/50 R18 100V RSC AS	245/50 R18 100V RSC AS	245/50 R18 100V RSC AS
Tire Type, Front w. Sport Package (top)	-	245/40 R20 Z RSC	245/40 R20 Z RSC	245/40 R20 Z RSC
Tire Type, Rear w. Sport Package (top)	-	275/30 R20 Z RSC	275/30 R20 Z RSC	275/30 R20 Z RSC
Wheels, Front	-	8J x 18 Light alloy	8J x 18 Light alloy	8J x 18 Light alloy
Wheels, Rear	-	8J x 18 Light alloy	8J x 18 Light alloy	8J x 18 Light alloy
Wheels, Front w. Sport Package (top)	-	8.5J x 20 Light alloy	8.5J x 20 Light alloy	8.5J x 20 Light alloy
Wheels, Rear w. Sport Package (top)	-	10J x 20 Light alloy	10J x 20 Light alloy	10J x 20 Light alloy
Performance				
Top Speed	km/h / mph	240 / 150	240 / 150	240 / 150
Top Speed w. Sport Package	km/h / mph	240 / 150	240 / 150	240 / 150
Acceleration, 0-60 mph	s	5.8	5.1	5.0
Acceleration, 0-100 Km/h	s	6.1	5.4	5.3
Fuel Economy, EPA Estimate - City	mpg	17	15	14
Fuel Economy, EPA Estimate - Highway	mpg	25	22	20
Fuel Economy, EPA Estimate - Combined	mpg	20	17	16
Approximate Range	km / miles	700 / 435	595 / 370	560 / 350

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Technical Data.

2012 BMW 7 Series.

		740Li Sedan Auto 6 Speed	750Li Sedan Auto 6 Speed	750Li xDrive Sedan Auto 6 Speed	2010 760Li Sedan Auto 8 Speed
04.01.2010					
Body					
No. of Doors / Seating Capacity	-	4 / 5	4 / 5	4 / 5	4 / 4
Vehicle Length	mm / inch	5214 / 205.3	5214 / 205.3	5214 / 205.3	5214 / 205.3
Vehicle Width	mm / inch	1902 / 74.9	1902 / 74.9	1902 / 74.9	1902 / 74.9
Vehicle Height, Unloaded	mm / inch	1481 / 58.3	1481 / 58.3	1481 / 58.3	1481 / 58.3
Wheelbase	mm / inch	3210 / 126.4	3210 / 126.4	3210 / 126.4	3210 / 126.4
Turning Circle	m / ft	12.7 / 41.7	12.7 / 41.7	13.0 / 42.7	12.7 / 41.7
Track, Front	mm / inch	1611 / 63.4	1611 / 63.4	1611 / 63.4	1611 / 63.4
Track, Rear	mm / inch	1650 / 65.0	1650 / 65.0	1650 / 65.0	1650 / 65.0
Ground Clearance	mm / inch	147 / 5.79	147 / 5.79	144 / 5.67	151 / 5.94
Width at Shoulderheight, Front	mm / inch	1503 / 59.2	1503 / 59.2	1503 / 59.2	1503 / 59.2
Width at Shoulderheight, Rear	mm / inch	1462 / 57.6	1462 / 57.6	1462 / 57.6	1462 / 57.6
Effective Leg Room, Front	mm / inch	1046 / 41.3	1046 / 41.3	1046 / 41.3	1048 / 41.3
Effective Leg Room, Rear	mm / inch	1124 / 44.3	1124 / 44.3	1124 / 44.3	1124 / 44.3
Effective Head Room, Front	mm / inch	1036 / 40.8	1036 / 40.8	1036 / 40.8	1036 / 40.8
Effective Head Room, Rear	mm / inch	988 / 38.9	988 / 38.9	988 / 38.9	988 / 38.9
Trunk Volume acc SAE1100	ft³	14	14	14	14
Fuel Capacity	L / gal	82 / 21.7	82 / 21.7	82 / 21.7	82 / 21.7
Curb Weight	kg / lbs	2010 / 4432	2105 / 4641	2205 / 4861	2280 / 5026
Weight Distribution, Front / Rear	%	49.8 / 50.2	51.5 / 48.5	53.8 / 47.2	53.4 / 47.6
Gross Vehicle Weight Rating (GVWR)	kg / lbs	2495 / 5501	2625 / 5787	2705 / 5964	2765 / 6096
Payload	kg / lbs	480 / 1058	480 / 1058	480 / 1058	430 / 948
Axle Load Limit, front	kg / lbs	1165 / 2569	1285 / 2833	1330 / 2932	1365 / 3009
Axle Load Limit, rear	kg / lbs	1415 / 3120	1415 / 3120	1450 / 3197	1450 / 3197
Towing Capacity	kg / lbs	- / -	- / -	- / -	- / -
Roof Load Limit	kg / lbs	100 / 220	100 / 220	100 / 220	100 / 220
Drag Coefficient	Cd	0.30	0.31	0.32	0.32
Engine					
		N54 HP	N63	N63	N63
Engine Type / Cylinder / Valves per Cylinder	-	Inline / 6 / 4 VANOS	V 90° / 8 / 4 VANOS	V 90° / 8 / 4 VANOS	V 60 / 12 / 4 VANOS
Engine Management System	-	MSD87 Direct Injection	MSD 85.1 Direct Injection	MSD 85.1 Direct Injection	MSD87-12 Direct Injection
Induction System/Boost Pressure	-	twin turbo	twin turbo reverse flow "hot V"	twin turbo reverse flow "hot V"	twin turbo
Boost Pressure	Bar	0.7	0.6	0.6	0.8
Displacement	cm³ / inch³	2979 / 181.8	4395 / 268.2	4395 / 268.2	5972 / 364.4
Stroke	mm / inch	89.6 / 3.53	88.3 / 3.48	88.3 / 3.48	80 / 3.15
Bore	mm / inch	84 / 3.31	89 / 3.50	89 / 3.50	89 / 3.50
Power	SAE hp / rpm	315 / 5800-6000	400 / 5500-6400	400 / 5500-6400	535 / 5250-6000
Torque	ft lbs / rpm	330 / 1600-4500	450 / 1750-4500	450 / 1750-4500	550 / 1500-5000
Compression Ratio / Fuel type	-	10.2 / Premium	10.0 / Premium	10.0 / Premium	10.0 / Premium
Chassis and Suspension					
Codification of Reference Gearbox	-	6HP19 TU	6HP26 TU	6HP26 TU	8HP90
Gear Ratios I	-	4.171	4.171	4.171	4.714
II	-	2.340	2.340	2.340	3.143
III	-	1.521	1.521	1.521	2.106
IV	-	1.143	1.143	1.143	1.667
V	-	0.867	0.867	0.867	1.285
VI	-	0.691	0.691	0.691	1.000
VII	-	-	-	-	0.839
VIII	-	-	-	-	0.667
Reverse Ratio	-	3.403	3.403	3.403	3.317
Final Drive Ratio	-	3.46	3.46	3.46	2.813
Steering Type / Ratio	-	Rack-and-pinion / 19.1	Rack-and-pinion / 19.1	Rack-and-pinion / 19.1	Rack-and-pinion / 19.1
Front Brakes / Diameter	- / mm / inch	Vent. Disc / 348x36 / 13.7x1.4	Vent. Disc / 374 / 14.7	Vent. Disc / 374 / 14.7	Vent. Disc / 374 / 14.7
Rear Brakes / Diameter	- / mm / inch	Vent. Disc / 345x24 / 13.6x0.9	Vent. Disc / 370 / 14.6	Vent. Disc / 370 / 14.6	Vent. Disc / 370 / 14.6
Tire Type, Front	-	245/50 R18 100V RSC AS	245/50 R18 100V RSC AS	245/50 R18 100V RSC AS	245/50 R18 100V RSC AS
Tire Type, Rear	-	245/50 R18 100V RSC AS	245/50 R18 100V RSC AS	245/50 R18 100V RSC AS	245/50 R18 100V RSC AS
Tire Type, Front w. Sport Package (top)	-	245/40 R20 Z RSC	245/40 R20 Z RSC	245/40 R20 Z RSC	245/40 R20 Z RSC
Tire Type, Rear w. Sport Package (top)	-	275/30 R20 Z RSC	275/30 R20 Z RSC	275/30 R20 Z RSC	275/30 R20 Z RSC
Wheels, Front	-	8J x 18 Light alloy	8J x 18 Light alloy	8J x 18 Light alloy	8J x 18 Light alloy
Wheels, Rear	-	8J x 18 Light alloy	8J x 18 Light alloy	8J x 18 Light alloy	8J x 18 Light alloy
Wheels, Front w. Sport Package (top)	-	8.5J x 20 Light alloy	8.5J x 20 Light alloy	8.5J x 20 Light alloy	8.5J x 20 Light alloy
Wheels, Rear w. Sport Package (top)	-	10J x 20 Light alloy	10J x 20 Light alloy	10J x 20 Light alloy	10J x 20 Light alloy
Performance					
Top Speed	km/h / mph	240 / 150	240 / 150	240 / 150	240 / 150
Top Speed w. Sport Package	km/h / mph	240 / 150	240 / 150	240 / 150	240 / 150
Acceleration, 0-60 mph	s	5.9	5.2	5.1	4.5
Acceleration, 0-100 Km/h	s	6.2	5.5	5.4	4.7
Fuel Economy, EPA Estimate - City	mpg	17	14	14	13
Fuel Economy, EPA Estimate - Highway	mpg	25	22	20	19
Fuel Economy, EPA Estimate - Combined	mpg	20	17	16	15
Approximate Range	km / miles	700 / 435	595 / 370	560 / 350	525 / 330