

BMW

U.S. Media Information

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Technical Data.

2012 BMW Alpina B7.

		Alpina B7	Alpina B7 xDrive	Alpina B7 L	Alpina B7 L xDrive
		Sedan	Sedan	Sedan	Sedan
		Auto 6 Speed	Auto 6 Speed	Auto 6 Speed	Auto 6 Speed
11.01.2011					
Body					
No. of Doors / Seating Capacity	-	4 / 5	4 / 5	4 / 5	4 / 5
Vehicle Length	mm / inch	5087 / 200.2	5087 / 200.2	5227 / 205.7	5227 / 205.7
Vehicle Width	mm / inch	1902 / 74.9	1902 / 74.9	1902 / 74.9	1902 / 74.9
Vehicle Height, Unloaded	mm / inch	1484 / 58.4	1484 / 58.4	1494 / 58.8	1494 / 58.8
Wheelbase	mm / inch	3070 / 120.9	3070 / 120.9	3210 / 126.4	3210 / 126.4
Turning Circle	m / ft	12.2 / 40.0	12.5 / 41.0	12.7 / 41.7	13.0 / 42.7
Track, Front	mm / inch	1621 / 63.8	1621 / 63.8	1621 / 63.8	1621 / 63.8
Track, Rear	mm / inch	1628 / 64.1	1628 / 64.1	1628 / 64.1	1628 / 64.1
Width at Shoulderheight, Front	mm / inch	1503 / 59.2	1503 / 59.2	1503 / 59.2	1503 / 59.2
Width at Shoulderheight, Rear	mm / inch	1458 / 57.4	1458 / 57.4	1462 / 57.6	1462 / 57.6
Effective Leg Room, Front	mm / inch	1048 / 41.3	1048 / 41.3	1046 / 41.3	1046 / 41.3
Effective Leg Room, Rear	mm / inch	987 / 38.9	987 / 38.9	1124 / 44.3	1124 / 44.3
Effective Head Room, Front	mm / inch	1032 / 40.6	1032 / 40.6	1036 / 40.8	1036 / 40.8
Effective Head Room, Rear	mm / inch	978 / 38.5	978 / 38.5	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	2070 / 4564	2140 / 4718	2105 / 4641	2205 / 4861
Weight Distribution, Front / Rear	%	51.4 / 48.6	53.8 / 47.2	51.5 / 48.5	53.8 / 47.2
Gross Vehicle Weight Rating (GVWR)	kg / lbs	2585 / 5699	2650 / 5842	2625 / 5787	2705 / 5964
Payload	kg / lbs	480 / 1058	480 / 1058	480 / 1058	480 / 1058
Axle Load Limit, front	kg / lbs	1265 / 2789	1330 / 2932	1285 / 2833	1330 / 2932
Axle Load Limit, rear	kg / lbs	1385 / 3053	1390 / 3064	1415 / 3120	1450 / 3197
Towing Capacity	kg / lbs	- / -	- / -	- / -	- / -
Roof Load Limit	kg / lbs	100 / 220	100 / 220	100 / 220	100 / 220
Drag Coefficient	Cd	0.31	0.32	0.31	0.32
Drag Cd x A	m² / ft²	0.75 / 8.04	0.77 / 8.3	0.75 / 8.04	0.77 / 8.3
Engine					
		N63 - Alpina	N63 - Alpina	N63 - Alpina	N63 - Alpina
Engine Type / Cylinder / Valves per Cylinder	-	V 90°/ 8 / 4 VANOS	V 90°/ 8 / 4 VANOS	V 90°/ 8 / 4 VANOS	V 90°/ 8 / 4 VANOS
Engine Management System	-	MSD 85.1 Direct Injection	MSD 85.1 Direct Injection	MSD 85.1 Direct Injection	MSD 85.1 Direct Injection
Induction System/Boost Pressure	-	twin turbo reverse flow "hot V"	twin turbo reverse flow "hot V"	twin turbo reverse flow "hot V"	twin turbo reverse flow "hot V"
Boost Pressure	Bar	1.0	1.0	1.0	1.0
Displacement	cm³ / inch³	4395 / 268.2	4395 / 268.2	4395 / 268.2	4395 / 268.2
Stroke	mm / inch	88.3 / 3.48	88.3 / 3.48	88.3 / 3.48	88.3 / 3.48
Bore	mm / inch	89 / 3.50	89 / 3.50	89 / 3.50	89 / 3.50
Power	SAE hp / rpm	500 / 5500	500 / 5500	500 / 5500	500 / 5500
Torque	ft lbs / rpm	516 / 3000-4700	516 / 3000-4700	516 / 3000-4700	516 / 3000-4700
Compression Ratio / Fuel type	-	9.2 / Premium	9.2 / Premium	9.2 / Premium	9.2 / Premium
Chassis and Suspension					
Codification of Reference Gearbox	-	6HP26 TU	6HP26 TU	6HP26 TU	6HP26 TU
Gear Ratios I	-	4.171	4.171	4.171	4.171
II	-	2.340	2.340	2.340	2.340
III	-	1.521	1.521	1.521	1.521
IV	-	1.143	1.143	1.143	1.143
V	-	0.867	0.867	0.867	0.867
VI	-	0.691	0.691	0.691	0.691
VII	-	-	-	-	-
VIII	-	-	-	-	-
Reverse Ratio	-	3.403	3.403	3.403	3.403
Final Drive Ratio	-	3.46	3.46	3.46	3.46
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 / 374 / 14.7	Vent. Disc / 374 / 14.7	Vent. Disc / 374 / 14.7	Vent. Disc / 374 / 14.7
Rear Brakes / Diameter	- / mm / inch	Vent. Disc / 370 / 14.6	Vent. Disc / 370 / 14.6	Vent. Disc / 370 / 14.6	Vent. Disc / 370 / 14.6
Tire Type, Front	-	245/35 R21	245/50 R18 100V RSC AS	245/50 R18 100V RSC AS	245/50 R18 100V RSC AS
Tire Type, Rear	-	285/30 R21	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)	-	-	-	-	-
Tire Type, Rear w. Sport Package (top)	-	-	-	-	-
Wheels, Front	-	8.5J x 21 Light alloy	8.5J x 21 Light alloy	8.5J x 21 Light alloy	8.5J x 21 Light alloy
Wheels, Rear	-	10J x 21 Light alloy	10J x 21 Light alloy	10J x 21 Light alloy	10J x 21 Light alloy
Wheels, Front w. Sport Package (top)	-	-	-	-	-
Wheels, Rear w. Sport Package (top)	-	-	-	-	-
Performance					
Top Speed	km/h / mph	280 / 175	280 / 175	280 / 175	280 / 175
Top Speed w. Sport Package	km/h / mph	-	-	-	-
Acceleration, 0-60 mph	s	4.5	4.6	4.5	4.6
Acceleration, 0-100 Km/h	s	4.7	4.8	4.7	4.8
Fuel Economy, EPA Estimate - City	mpg	14	14	14	14
Fuel Economy, EPA Estimate - Highway	mpg	22	20	22	20
Fuel Economy, EPA Estimate - Combined	mpg	17	16	17	16
Approximate Range	km / miles	595 / 370	560 / 350	595 / 370	560 / 350

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