BMW
U.S. Media Information

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Technical Data.
2012 BMW 5 Series Sedan.

		528i	528i xDrive	535i	535i	535i xDrive
		Sedan	Sedan	Sedan	Sedan	Sedan
11.01.2011		Auto 8 Speed	Auto 8 Speed	Manual 6 Speed	Auto 8 Speed	Auto 6 Speed
Body						
No. of Doors / Seating Capacity	-	4 / 5	4 / 5	4 / 5	4 / 5	4 / 5
Vehicle Length	mm / inch	4905 / 193.1	4905 / 193.1	4905 / 193.1	4905 / 193.1	4905 / 193.1
Vehicle Width	mm / inch	1860 / 73.2	1860 / 73.2	1860 / 73.2	1860 / 73.2	1860 / 73.2
Vehicle Height. Unloaded	mm / inch	1464 / 57.6	1464 / 57.6	1464 / 57.6	1464 / 57.6	1464 / 57.6
Wheelbase	mm / inch	2968 / 116.9	2968 / 116.9	2968 / 116.9	2968 / 116.9	2968 / 116.9
Turning Circle	m / ft	11.95 / 39.2	11.95 / 39.2	11.95 / 39.2	11.95 / 39.2	11.95 / 39.2
Track, Front	mm / inch	1600 / 63.0	1600 / 63.0	1600 / 63.0	1600 / 63.0	1600 / 63.0
Track, Rear	mm / inch	1627 / 64.1	1627 / 64.1	1627 / 64.1	1627 / 64.1	1627 / 64.1
Ground Clearance	mm / inch	141 / 5.60	141 / 5.60	141 / 5.60	141 / 5.60	141 / 5.60
Width at Shoulderheight, Front	mm / inch	1480 / 58.3	1480 / 58.3	1480 / 58.3	1480 / 58.3	1480 / 58.3
Width at Shoulderheight, Rear	mm / inch	1427 / 56.2	1427 / 56.2	1427 / 56.2	1427 / 56.2	1427 / 56.2
Effective Leg Room, Front	mm / inch	1052 / 41.4	1052 / 41.4	1052 / 41.4	1052 / 41.4	1052 / 41.4
Effective Leg Room, Rear	mm / inch	918 / 36.1	918 / 36.1	918 / 36.1	918 / 36.1	918 / 36.1
Effective Head Room, Front	mm / inch	1028 / 40.5	1028 / 40.5	1028 / 40.5	1028 / 40.5	1028 / 40.5
Effective Head Room, Rear	mm / inch	973 / 38.3	973 / 38.3	973 / 38.3	973 / 38.3	973 / 38.3
Trunk Volume acc SAE1100	ft³	14	14	14	14	14
Fuel Capacity	L / gal	70 / 18.5	70 / 18.5	70 / 18.5	70 / 18.5	70 / 18.5
Curb Weight	kg / lbs	1730 / 3814	1815 / 4001	1845 / 4068	1855 / 4090	1920 / 3233
Weight Distribution Front/Rear	%	49.4 / 50.6	50.1 / 49.9	50.9 / 49.1	50.9 / 49.1	52.9 / 47.1
Gross Vehicle Weight Rating (GVWR)	kg / lbs	2255 / 4971	2345 / 5170	2340 / 5159	2350 / 5181	2440 / 5379
Payload	kg / lbs	470 / 1036	470 / 1036	480 / 1058	480 / 1058	480 / 1058
Axle Load Limit, front	kg / lbs	1070 / 2359	1110 / 2447	1130 / 2491	1130 / 2491	1225 / 2701
Axle Load Limit, rear	kg / lbs	1290 / 2844	1310 / 2888	1310 / 2888	1320 / 2910	1320 / 2910
Towing Capacity	lbs	-	-	-	-	- / -
Roof Load Limit	kg / lbs	100 / 220	100 / 220	100 / 220	100 / 220	100 / 220
Drag Coefficient	Cd	0.29	0.29	0.29	0.29	0.31
Engine		N20	N20	N55	N55	N55
Engine Type / Cylinder / Valves per Cylinder	-	Inline / 4 / 4 VANOS	Inline / 4 / 4 VANOS	Inline / 6 / 4 VANOS	Inline / 6 / 4 VANOS	Inline / 6 / 4 VANOS
Engine Management System	-	MEVD Direct Injection	MEVD Direct Injection	MEVD17.2 Direct Injection	MEVD17.2 Direct Injection	MEVD17.2 Direct Injection
Induction System	Bar	Twin Scroll Valvetronic	Twin Scroll Valvetronic	Valvetronic, single twin scroll turbo	Valvetronic, single twin scroll turbo	lvetronic, single twin scroll turbo
Boost Pressure / Overboost	Bar	1.3	1.3	0.6	0.6	0.6
Displacement	cm³ / inch³	1997 / 122	1997 / 122	2979 / 181.8	2979 / 181.8	2979 / 181.8
Stroke	mm / inch	90.1 / 3.5	90.1 / 3.5	89.6 / 3.53	89.6 / 3.53	89.6 / 3.53
Bore	mm / inch	84 / 3.3	84 / 3.3	84 / 3.31	84 / 3.31	84 / 3.31
Power	SAE hp / rpm	240 / 5000	240 / 5000	300 / 5800-6250	300 / 5800-6250	300 / 5800-6250
Torque	ft lbs / rpm	255 / 1250-4800	255 / 1250-4800	300 / 1200-5000	300 / 1200-5000	300 / 1200-5000
Compression Ratio / Fuel type	-	10.0 / Premium	10.0 / Premium	10.2 / Premium	10.2 / Premium	10.2 / Premium
Chassis and Suspension						
Codification of Reference Gearbox	-	8HP45	8HP45	K	8HP45	8HP45
Gear Ratios I	-	4.714	4.714	4.110	4.714	4.714
II	-	3.143	3.143	2.315	3.143	3.143
III	-	2.106	2.106	1.542	2.106	2.106
IV	-	1.667	1.667	1.179	1.667	1.667
V	-	1.285	1.285	1.000	1.285	1.285
VI	-	1.000	1.000	0.846	1.000	1.000
VII	-	0.839	0.839	-	0.839	0.839
VIII	-	0.667	0.667	-	0.667	0.667
Reverse Ratio	-	3.295	3.295	3.727	3.295	3.295
Final Drive Ratio	-	3.231	3.231	3.231	3.077	3.077
Steering Type / Ratio	-	Rack-and-pinion / 17.1	Rack-and-pinion / 17.1	Rack-and-pinion / 17.1	Rack-and-pinion / 17.1	Rack-and-pinion / 17.9
Front Brakes / Diameter	- / mm / inch	Vented	Vented	Vented 348x36 / 13.7x1.4	Vented 348x36 / 13.7x1.4	Vent. Disc / 348 / 13.7
Rear Brakes / Diameter	- / mm / inch	Vented	Vented	Vented 345x24 / 13.6x0.9	Vented 345x24 / 13.6x0.9	Vent. Disc / 330 / 13.0
Tire Type, Front	-	225/55 R17 97V RSC AS	225/55 R17 97V RSC AS	245/45 R18 100V RSC AS	245/45 R18 100V RSC AS	245/45 R18 100V RSC AS
Tire Type, Rear	-	225/55 R17 97V RSC AS	225/55 R17 97V RSC AS	245/45 R18 100V RSC AS	245/45 R18 100V RSC AS	245/45 R18 100V RSC AS
Tire Type, Front w. Sport Package (top)	-	-	-	245/40 R19 RSC	245/40 R19 RSC	-
Tire Type, Rear w. Sport Package (top)	-	-	-	275/35 R19 RSC	275/35 R19 RSC	-
Wheels, Front	-	8J x 17 Light alloy	8J x 17 Light alloy	8J x 18 Light alloy	8J x 18 Light alloy	8J x 17 Light alloy
Wheels, Rear	-	8J x 17 Light alloy	8J x 17 Light alloy	8J x 18 Light alloy	8J x 18 Light alloy	8J x 17 Light alloy
Wheels, Front w. Sport Package (top)	-	-	-	8.5J x 19 Light alloy	8.5J x 19 Light alloy	-
Wheels, Rear w. Sport Package (top)	-	-	-	9J x 19 Light alloy	9J x 19 Light alloy	-
Performance						
Top Speed	km/h / mph	210 / 130	210 / 130	210 / 130	210 / 130	210 / 130
Top speed w. Sport Package	km/h / mph	250 / 155	240 / 150	250 / 155	250 / 155	250 / 155
Acceleration, 0-60 mph	s	6.2	6.3	5.7	5.7	5.6
Acceleration, 0-100 Km/h	s	6.5	6.6	6.0	6.0	5.9
Fuel Economy, EPA Estimate - City	mpg	23	22	19	20	17
Fuel Economy, EPA Estimate - Highway	mpg	34	32	28	29	25
Fuel Economy, EPA Estimate - Combined	mpg	27	26	22	23	20
Approximate Range	km / miles	780 / 480	750 / 465	670 / 415	700 / 435	580 / 360

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Technical Data.
2012 BMW 5 Series Sedan.

		550i	550i	550i xDrive
		Sedan	Sedan	Sedan
11.22.2009		**Manual 6 Speed**	**Auto 8 Speed**	**Auto 8 Speed**
Body				
No. of Doors / Seating Capacity	-	4 / 5	4 / 5	4 / 5
Vehicle Length	mm / inch	4905 / 193.1	4905 / 193.1	4905 / 193.1
Vehicle Width	mm / inch	1860 / 73.2	1860 / 73.2	1860 / 73.2
Vehicle Height. Unloaded	mm / inch	1464 / 57.6	1464 / 57.6	1464 / 57.6
Wheelbase	mm / inch	2968 / 116.9	2968 / 116.9	2968 / 116.9
Turning Circle	m / ft	11.95 / 39.2	11.95 / 39.2	11.95 / 39.2
Track, Front	mm / inch	1600 / 63.0	1600 / 63.0	1600 / 63.0
Track, Rear	mm / inch	1627 / 64.1	1627 / 64.1	1627 / 64.1
Ground Clearance	mm / inch	141 / 5.60	141 / 5.60	141 / 5.60
Width at Shoulderheight, Front	mm / inch	1480 / 58.3	1480 / 58.3	1480 / 58.3
Width at Shoulderheight, Rear	mm / inch	1427 / 56.2	1427 / 56.2	1427 / 56.2
Effective Leg Room, Front	mm / inch	1052 / 41.4	1052 / 41.4	1052 / 41.4
Effective Leg Room, Rear	mm / inch	918 / 36.1	918 / 36.1	918 / 36.1
Effective Head Room, Front	mm / inch	1028 / 40.5	1028 / 40.5	1028 / 40.5
Effective Head Room, Rear	mm / inch	973 / 38.3	973 / 38.3	973 / 38.3
Trunk Volume acc SAE1100	ft³	14	14	14
Fuel Capacity	L / gal	70 / 18.5	70 / 18.5	70 / 18.5
Curb Weight	kg / lbs	1980 / 4365	1980 / 4365	2050 / 4519
Weight Distribution Front/Rear	%	52.5 / 47.5	52.5 / 47.5	53.9 / 46.1
Gross Vehicle Weight Rating (GVWR)	kg / lbs	2450 / 5401	2450 / 5401	2540 / 5600
Payload	kg / lbs	470 / 1036	470 / 1036	470 / 1036
Axle Load Limit, front	kg / lbs	1230 / 2712	1230 / 2712	1270 / 2800
Axle Load Limit, rear	kg / lbs	1330 / 2932	1330 / 2932	1340 / 2954
Towing Capacity	kg / lbs	-	-	-
Roof Load Limit	kg / lbs	100 / 220	100 / 220	100 / 220
Drag Coefficient	Cd	0.30	0.30	0.30
Engine		N63	N63	N63
Engine Type / Cylinder / Valves per Cylinder	-	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
Induction System/Boost Pressure	Bar	twin turbo reverse flow "hot V"	twin turbo reverse flow "hot V"	twin turbo reverse flow "hot V"
Boost Pressure / Overboost	Bar	0.6	0.6	0.6
Displacement	cm³ / inch³	4395 / 268.2	4395 / 268.2	4395 / 268.2
Stroke	mm / inch	88.3 / 3.48	88.3 / 3.48	88.3 / 3.48
Bore	mm / inch	89 / 3.50	89 / 3.50	89 / 3.50
Power	SAE hp / rpm	400 / 5500-6400	400 / 5500-6400	400 / 5500-6400
Torque	ft lbs / rpm	450 / 1750-4500	450 / 1750-4500	450 / 1750-4500
Compression Ratio / Fuel type	-	10.0 / Premium	10.0 / Premium	10.0 / Premium
Chassis and Suspension				
Codification of Reference Gearbox	-	G	8HP70	8HP70
Gear Ratios I	-	4.055	4.714	4.714
II	-	2.396	3.143	3.143
III	-	1.582	2.106	2.106
IV	-	1.192	1.667	1.667
V	-	1.000	1.285	1.285
VI	-	0.872	1.000	1.000
VII	-	-	0.839	0.839
VIII	-	-	0.667	0.667
Reverse Ratio	-	3.677	3.317	3.317
Final Drive Ratio	-	3.077	2.813	3.077
Steering Type / Ratio	-	Rack-and-pinion / 17.1	Rack-and-pinion / 17.1	Rack-and-pinion / 17.9
Front Brakes / Diameter	- / mm / inch	Vented 348x36 / 13.7x1.4	Vented 348x36 / 13.7x1.4	Vented 348x36 / 13.7x1.4
Rear Brakes / Diameter	- / mm / inch	Vented 345x24 / 13.6x0.9	Vented 345x24 / 13.6x0.9	Vented 345x24 / 13.6x0.9
Tire Type, Front	-	245/45 R18 100V RSC AS	245/45 R18 100V RSC AS	245/45 R18 100V RSC AS
Tire Type, Rear	-	245/45 R18 100V RSC AS	245/45 R18 100V RSC AS	245/45 R18 100V RSC AS
Tire Type, Front w. Sport Package (top)	-	245/40 R19 RSC	245/40 R19 RSC	245/40 R19 RSC
Tire Type, Rear w. Sport Package (top)	-	275/35 R19 RSC	275/35 R19 RSC	275/35 R19 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 19 Light alloy	8.5J x 19 Light alloy	8.5J x 19 Light alloy
Wheels, Rear w. Sport Package (top)	-	9J x 19 Light alloy	9J x 19 Light alloy	9J x 19 Light alloy
Performance				
Top Speed	km/h / mph	210 / 130	210 / 130	210 / 130
Top speed w. Sport Package	km/h / mph	250 / 155	250 / 155	250 / 155
Acceleration, 0-60 mph	s	5.0	5.0	4.7
Acceleration, 0-100 Km/h	s	5.3	5.3	4.9
Fuel Economy, EPA Estimate - City	mpg	15	15	15
Fuel Economy, EPA Estimate - Highway	mpg	22	23	23
Fuel Economy, EPA Estimate - Combined	mpg	17	18	18
Approximate Range	km / miles	490 / 305	520 / 325	520 / 325