

BMW

U.S. Media Information

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Technical Data.

2012 BMW 6 Series Coupe.

		640i	650i	650i	650i xDrive
		Coupe	Coupe	Coupe	Coupe
		Auto 8 Speed	Auto 8 Speed	Manual 6 Speed	Auto 8 Speed
11.01.2011					
Body					
No. of Doors / Seating Capacity	-	2 / 4	2 / 4	2 / 4	2 / 4
Vehicle Length	mm / inch	4896/ 192.8	4896/ 192.8	4896/ 192.8	4896/ 192.8
Vehicle Width	mm / inch	1894 / 74.6	1894 / 74.6	1894 / 74.6	1894 / 74.6
Vehicle Height, Unloaded	mm / inch	1369 / 53.9	1369 / 53.9	1369 / 53.9	1369 / 53.9
Wheelbase	mm / inch	2855 / 112.4	2855 / 112.4	2855 / 112.4	2855 / 112.4
Turning Circle	m / ft	11.7 / 38.4	11.7 / 38.4	11.7 / 38.4	11.7 / 38.4
Track, Front	mm / inch	1600 / 63.0	1594 / 62.8	1594 / 62.8	1594 / 62.8
Track, Rear	mm / inch	1657 / 65.2	1651 / 65.0	1651 / 65.0	1651 / 65.0
Ground Clearance	mm / inch	124 / 4.88	124 / 4.88	124 / 4.88	124 / 4.88
Width at Shoulderheight, Front	mm / inch	1445 / 56.9	1445 / 56.9	1445 / 56.9	1445 / 56.9
Width at Shoulderheight, Rear	mm / inch	1263 / 49.7	1263 / 49.7	1263 / 49.7	1263 / 49.7
Effective Leg Room, Front	mm / inch	1069 / 42.1	1069 / 42.1	1069 / 42.1	1069 / 42.1
Effective Leg Room, Rear	mm / inch	774 / 30.5	774 / 30.5	774 / 30.5	774 / 30.5
Effective Head Room, Front	mm / inch	1017 / 40.0	1017 / 40.0	1017 / 40.0	1017 / 40.0
Effective Head Room, Rear	mm / inch	908 / 35.7	908 / 35.7	908 / 35.7	908 / 35.7
Trunk Volume acc SAE1100	ft³	13	13	13	13
Fuel Capacity	L / gal	70 / 18.5	70 / 18.5	70 / 18.5	70 / 18.5
Curb Weight	kg / lbs	1815 / 4001	1920 / 4233	1920 / 4233	1990 / 4387
Weight Distribution, Front / Rear	%	51.2 / 48.8	52.6 / 47.4	52.6 / 47.4	53.8 / 46.2
Gross Vehicle Weight Rating (GVWR)	kg / lbs	2190 / 4828	2300 / 5071	2300 / 5071	2360 / 5203
Payload	kg / lbs	350 / 772	350 / 772	350 / 772	350 / 772
Axle Load Limit, front	kg / lbs	1100 / 2425	1165 / 2568	1165 / 2568	1220 / 2690
Axle Load Limit, rear	kg / lbs	1210 / 2668	1230 / 2712	1230 / 2712	1250 / 2756
Towing Capacity	kg / lbs	- / -	- / -	- / -	- / -
Roof Load Limit	kg / lbs	75 / 165	75 / 165	75 / 165	75 / 165
Drag Coefficient	Cd	0.31	0.31	0.31	0.32
Engine					
		N55HP	N63	N63	N63
Engine Type / Cylinder / Valves per Cylinder	-	Inline / 6 / 4 VANOS	V 90°/ 8 / 4 VANOS	V 90°/ 8 / 4 VANOS	V 90°/ 8 / 4 VANOS
Engine Management System	-	MEVD17.2 Direct Injection	MSD 85.1 Direct Injection 2	MSD 85.1 Direct Injection 2	MSD 85.1 Direct Injection 2
Induction System/Boost Pressure	-	Valvetronic, single twin scroll turbo	twin turbo reverse flow "hot V"	twin turbo reverse flow "hot V"	twin turbo reverse flow "hot V"
Boost Pressure	Bar	0.8	0.6	0.6	0.6
Displacement	cm³ / inch³	2979 / 181.8	4395 / 268.2	4395 / 268.2	4395 / 268.2
Stroke	mm / inch	89.6 / 3.53	88.3 / 3.48	88.3 / 3.48	88.3 / 3.48
Bore	mm / inch	84 / 3.31	89 / 3.50	89 / 3.50	89 / 3.50
Power	SAE hp / rpm	315 / 5800-600	400 / 5500-6400	400 / 5500-6400	400 / 5500-6400
Torque	ft lbs / rpm	330 / 1400-4500	450 / 1750-4500	450 / 1750-4500	450 / 1750-4500
Compression Ratio / Fuel type	-	10.2 / Premium	10.0 / Premium	10.0 / Premium	10.0 / Premium
Chassis and Suspension					
Codification of Reference Gearbox	-	8HP45	8HP70	G	8HP70
Gear Ratios I	-	4.714	4.714	4.055	4.714
II	-	3.143	3.143	2.396	3.143
III	-	2.106	2.106	1.582	2.106
IV	-	1.667	1.667	1.192	1.667
V	-	1.285	1.285	1.000	1.285
VI	-	1.000	1.000	0.872	1.000
VII	-	0.839	0.839	-	0.839
VIII	-	0.667	0.667	-	0.667
Reverse Ratio	-	3.295	3.317	3.677	3.317
Final Drive Ratio	-	3.231	3.077	3.462	3.077
Steering Type / Ratio	-	Rack-and-pinion / 17.2	Rack-and-pinion / 17.2	Rack-and-pinion / 17.2	Rack-and-pinion / 18
Front Brakes / Diameter	- / mm / inch	Vented	Vented 348 / 13.7	Vented 348 / 13.7	Vented 348 / 13.7
Rear Brakes / Diameter	- / mm / inch	Vented	Vented 345 / 13.6	Vented 345 / 13.6	Vented 345 / 13.6
Tire Type, Front	-	245/45 R18 100V RSC AS	245/40 R19 98V RSC AS	245/40 R19 98V RSC AS	245/40 R19 98V RSC AS
Tire Type, Rear	-	245/45 R18 100V RSC AS	245/40 R19 98V RSC AS	245/40 R19 98V RSC AS	245/40 R19 98V RSC AS
Tire Type, Front w. Sport Package (top)	-	-	245/35 R20 Y RSC	245/35 R20 Y RSC	245/35 R20 Y RSC
Tire Type, Rear w. Sport Package (top)	-	-	275/30 R20 Y RSC	275/30 R20 Y RSC	275/30 R20 Y RSC
Wheels, Front	-	8.0J x 18 Light alloy	8.5 x 19 Light alloy	8.5 x 19 Light alloy	8.5 x 19 Light alloy
Wheels, Rear	-	8.0J x 18 Light alloy	8.5J x 19 Light alloy	8.5J x 19 Light alloy	8.5J x 19 Light alloy
Wheels, Front w. Sport Package (top)	-	-	8.5 x 20 Light alloy	8.5 x 20 Light alloy	8.5 x 20 Light alloy
Wheels, Rear w. Sport Package (top)	-	-	9J x 20 Light alloy	9J x 20 Light alloy	9J x 20 Light alloy
Performance					
Top Speed	km/h / mph	210 / 130	210 / 130	210 / 130	210 / 130
Top Speed w. Sport Package	km/h / mph	250 / 155	250 / 155	250 / 155	250 / 155
Acceleration, 0-60 mph	s	5.4	4.9	4.9	4.7
Acceleration, 0-100 Km/h	s	5.6	5.1	5.1	4.9
Fuel Economy, EPA Estimate - City	mpg	21	15	15	15
Fuel Economy, EPA Estimate - Highway	mpg	31	23	22	20
Fuel Economy, EPA Estimate - Combined	mpg	25	18	17	17
Approximate Range	km / miles	725 / 450	520 / 325	490 / 305	490 / 305