

BMW
U.S. Media Information

Technical Data
2014 BMW 6 Series Coupe

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		640i Coupe	640i xDrive Coupe	650i Coupe	M6 Coupe	M6 Coupe
Engine type		N55B3000	N55B3000	N63B4401	S63B44T0	S63B44T0
Transmission type		automatic transmission 8	automatic transmission 8	automatic transmission 8	M-DC7 7	manual transmission 6
No of Doors / Seats		2 / 4	2 / 4	2 / 4	2 / 4	2 / 4
Veh. length	mm / inch	4896 / 192.8	4896 / 192.8	4896 / 192.8	4903 / 193	4903 / 193
Veh. width	mm / inch	1894 / 74.6	1894 / 74.6	1894 / 74.6	1899 / 74.8	1899 / 74.8
Veh. height	mm / inch	1369 / 53.9	1369 / 53.9	1369 / 53.9	1374 / 54.1	1374 / 54.1
Wheelbase	mm / inch	2855 / 112.4	2855 / 112.4	2855 / 112.4	2851 / 112.2	2851 / 112.2
Turning circle	m / ft	11.7 / 38.4	11.7 / 38.4	11.7 / 38.4	12.1 / 39.7	12.1 / 39.7
Ground clearance	mm / inch	124 / 4.9	124 / 4.9	124 / 4.9	106 / 4.2	106 / 4.2
Shoulder width front	mm / inch	1445 / 56.9	1445 / 56.9	1445 / 56.9	1445 / 56.9	1445 / 56.9
Shoulder width rear	mm / inch	1263 / 49.7	1263 / 49.7	1263 / 49.7	1263 / 49.7	1263 / 49.7
Legroom front	mm / inch	1069 / 42.1	1069 / 42.1	1069 / 42.1	1069 / 42.1	1069 / 42.1
Legroom rear	mm / inch	774 / 30.5	774 / 30.5	774 / 30.5	774 / 30.5	774 / 30.5
Max. headroom front	mm / inch	1017 / 40	1017 / 40	1017 / 40	1017 / 40	1017 / 40
Max. headroom rear	mm / inch	908 / 35.7	908 / 35.7	908 / 35.7	908 / 35.7	908 / 35.7
Luggage comp. capacity	m³ / ft³	0,460 / 16.2	0,460 / 16.2	0,460 / 16.2	0,460 /	0,460 /
Fuel tank capacity	liter / gal	70 / 18.5	70 / 18.5	70 / 18.5	80 / 21.1	80 / 21.1
Curb weight (US)	Kg / lbs	1815 / 4001	1901 / 4190	1939 / 4275	1928 / 4250	1914 / 4220
Weight distribution (empty car)	Front % / Rear%	51.2 / 48.8	53.8 / 46.2	52.9 / 47.1	52.6 / 47.4	52.5 / 47.5
Gross veh. weight	Kg / lbs	2210 / 4872	2277 / 5020	2320 / 5115	2350 / 5180	2350 / 5180
Payload	Kg / lbs	350 / 772	349 / 770	349 / 770	422 / 930	435 / 960
Axle load limit front	Kg / lbs	1100 / 2425	1179 / 2600	1179 / 2600	1179 / 2600	1179 / 2600
Axle load limit rear	Kg / lbs	1210 / 2668	1225 / 2700	1229 / 2710	1220 / 2690	1220 / 2690
Engine type / Cylinders / Valves p.cyl.		in line, VANOS, Valvetronic / 6 / 4	in line, VANOS, Valvetronic / 6 / 4	V 90 ° VANOS, Valvetronic / 8 / 4	V 90 ° VANOS, Valvetronic / 8 / 4	V 90 ° VANOS, Valvetronic / 8 / 4
Engine management		MEVD 17.2.6	MEVD 17.2.6	MEVD 17.2.H	MSD 17	MSD 17
Induction type		Single Twin Scroll Turbo	Single Twin Scroll Turbo	Twin Turbo	Two Twin Scroll Turbos	Two Twin Scroll Turbos
Injection type		High precision direct injection	High precision direct injection	High precision direct injection	High precision direct injection	High precision direct injection
Displacement	cm³ / inch³	2979 / 182	2979 / 182	4395 / 268	4395 / 268	4395 / 268
Stroke	mm / inch	89.6 / 3.5	89.6 / 3.5	89.3 / 3.5	88.3 / 3.5	88.3 / 3.5
Bore	mm / inch	84 / 3.3	84 / 3.3	89 / 3.5	89 / 3.5	89 / 3.5
Engine power / at rpm	hp @ rpm	315 / 5800-6000	315 / 5800-6000	445 / 5500-6000	560 / 6000-7000	560 / 6000-7000
Engine torque / at rpm	ft.lbs (Nm) @ rpm	330 (450) / 1400-4500	330 (450) / 1400-4500	480 (650) / 2000-4500	500 (680) / 1500-5750	500 (680) / 1500-5750
Compression rate / Fuel type (recomm.)	1 /	10.2 / Premium	10.2 / Premium	10 / Premium	10 / Premium	10 / Premium
Type of transmission		8HP45	8HP45	8HP70	M-DKG 436	G
Gear ratios 1st gear		4.714	4.714	4.714	4.806	4.055
2nd gear		3.143	3.143	3.143	2.593	2.396
3rd gear		2.106	2.106	2.106	1.701	1.582
4th gear		1.667	1.667	1.667	1.227	1.192
5th gear		1.285	1.285	1.285	1	1
6th gear		1	1	1	0.844	0.871
7th gear		0.839	0.839	0.839	0.671	
8th gear		0.667	0.667	0.667		
Reverse gear		3.295	3.295	3.317	4.172	3.677
Final drive		3.231	3.231	2.813	3.154	3.154
Steering type / Steering transmission, overdr	1 : 1	rack-and-pinion / 17.2	rack-and-pinion / 17.2	rack-and-pinion / 17.2	rack-and-pinion / 13.1	rack-and-pinion / 13.1
Front brake // Rotor Diameter	inch	disc ventilated // 13.7	disc ventilated // 13.7	disc ventilated // 14.7	disc ventilated // 16.1	disc ventilated // 16.1
Rear brake // Rotor Diameter	inch	disc ventilated // 13.6	disc ventilated // 13.6	disc ventilated // 13.6	disc ventilated // 15.6	disc ventilated // 15.6
Cd // Frontal	ff m² / ft²	0.3 // 2.23 / 24.01	0.3 // 2.23 / 24.01	0.3 // 2.23 / 24.01	0.32 // 2.29 / 24.65	0.32 // 2.29 / 24.65
Top speed	Kmh / mph	210 / 130	210 / 130	250 / 155	250 / 155	250 / 155
Top speed optional	Kmh / mph	250 / 155	250 / 155			
Acceleration 0-60 mph	s	5.3	5.3	4.5	4.1	4.3
Acceleration 0-100Kmh	s	5.3	5.3	4.7	4.2	
Acceleration 0-1000m	s	25.3	25.4	23	21.7	
Fuel cons. city (official EPA)	mpg	22 preliminary	20 preliminary	17 preliminary	14	15
Fuel cons. highway (official EPA)	mpg	32 preliminary	29 preliminary	25 preliminary	20	22
Fuel cons. combined (official EPA)	mpg	25 preliminary	23 preliminary	20 preliminary	16	17
Range (Combined)	miles	463	426	370	338	359
Front tires		245/45 R18 100V RSC	245/45 R18 100V RSC	245/45 R19 98V RSC	265/40 ZR19 102Y XL	265/40 ZR19 102Y XL
Rear tires		245/45 R18 100V RSC	245/45 R18 100V RSC	245/45 R19 98V RSC	295/35 ZR19 104Y XL	295/35 ZR19 104Y XL
Front Wheels		8J x 18 LM	8J x 18 LM	8.5J x 19 LM	9.5J x 19	9.5J x 19
Rear Wheels		8J x 18 LM	8J x 18 LM	8.5J x 19 LM	10.5J x 19	10.5J x 19
Track front	mm / inch	1600 / 63	1600 / 63	1600 / 63	1631 / 64.2	1631 / 64.2
Track rear	mm / inch	1665 / 65.6	1665 / 65.6	1665 / 65.6	1612 / 63.5	1612 / 63.5

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2014 BMW 6 Series Coupe

		650i xDrive Coupe
Engine type		N63B44O1
Transmission type		automatic transmission 8
No of Doors / Seats		2 / 4
Veh. length	mm / inch	4896 / 192.8
Veh. width	mm / inch	1894 / 74.6
Veh. height	mm / inch	1369 / 53.9
Wheelbase	mm / inch	2855 / 112.4
Turning circle	m / ft	11.7 / 38.4
Ground clearance	mm / inch	124 / 4.9
Shoulder width front	mm / inch	1445 / 56.9
Shoulder width rear	mm / inch	1263 / 49.7
Legroom front	mm / inch	1069 / 42.1
Legroom rear	mm / inch	774 / 30.5
Max. headroom front	mm / inch	1017 / 40
Max. headroom rear	mm / inch	908 / 35.7
Luggage comp. capacity	m³ / ft³	0,460 / 16.2
Fuel tank capacity	liter / gal	70 / 18.5
Curb weight (US)	Kg / lbs	2000 / 4410
Weight distribution (empty car)	Front % / Rear%	53.7 / 46.3
Gross veh. weight	Kg / lbs	2379 / 5245
Payload	Kg / lbs	349 / 770
Axle load limit front	Kg / lbs	1229 / 2710
Axle load limit rear	Kg / lbs	1250 / 2755
Engine type / Cylinders / Valves p.cyl.		V 90 ° VANOS, Valvetronic / 8 / 4
Engine management		MEVD 17.2.H
Induction type		Twin Turbo
Injection type		High precision direct injection
Displacement	cm³ / inch³	4395 / 268
Stroke	mm / inch	88.3 / 3.5
Bore	mm / inch	89 / 3.5
Engine power / at rpm	hp @ rpm	445 / 5500-6000
Engine torque / at rpm	ft.lbs (Nm) @ rpm	480 (650) / 2000-4500
Compression rate / Fuel type (recomm.)	:1 /	10 / Premium
Type of transmission		8HP70
Gear ratios 1st gear		4.714
2nd gear		3.143
3rd gear		2.106
4th gear		1.667
5th gear		1.285
6th gear		1
7th gear		0.839
8th gear		0.667
Reverse gear		3.317
Final drive		2.813
Steering type / Steering transmission, over	/ :1	rack-and-pinion / 18.7
Front brake // Rotor Diameter	inch	disc ventilated // 14.7
Rear brake // Rotor Diameter	inch	disc ventilated // 13.6
Cd // Frontal	// m² / ft²	0.32 // 2.23 / 24.01
Top speed	Kmh / mph	250 / 155
Top speed optional	Kmh / mph	
Acceleration 0-60 mph	s	4.3
Acceleration 0-100Kmh	s	4.5
Acceleration 0-1000m	s	23
Fuel cons. city (official EPA)	mpg	16 preliminary
Fuel cons. highway (official EPA)	mpg	24 preliminary
Fuel cons. combined (official EPA)	mpg	19 preliminary
Range (Combined)	miles	352
Front tires		245/45 R19 98 V RSC
Rear tires		245/45 R19 98 V RSC
Front Wheels		8.5J x 19 LM
Rear Wheels		8.5J x 19 LM
Track front	mm / inch	1600 / 63
Track rear	mm / inch	1665 / 65.6