

BMW

U.S. Media Information

Technical Data

2017 BMW 6 Series Convertible

		640i	640i xDrive	650i	650i xDrive	M6	M6 DCT
Transmission type		automatic	automatic	automatic	automatic	manual transmission	DCT
Body							
Seats	--	4	4	4	4	4	4
Number of Doors	--	2	2	2	2	2	2
drive type	--	RWD	AWD	RWD	AWD	RWD	RWD
Veh. length	inch	192.8	192.8	192.8	192.8	193	193
Veh. width	inch	74.6	74.6	74.6	74.6	74.8	74.8
Width incl mirrors	inch	82.3	82.3	82.3	82.3	82.9	82.9
Veh. height	inch	53.7	53.7	53.7	53.7	53.9	53.9
Wheelbase	inch	112.4	112.4	112.4	112.4	112.2	112.2
Overhang front	inch	37.1	37.1	37.1	37.1	37.4	37.4
Rear overhang	inch	43.2	43.2	43.2	43.2	43.4	43.4
Ground clearance	inch	4.8	4.8	4.8	4.8	4.2	4.2
Turning circle	ft	38.4	38.4	38.4	38.4	39.7	39.7
Legroom front	inch	42.1	42.1	42.1	42.1	42.1	42.1
Legroom 2nd row	inch	30.5	30.5	30.5	30.5	30.5	30.5
Shoulder room front	inch	56.9	56.9	56.9	56.9	56.9	56.9
Shoulder room rear	inch	49.6	49.6	49.6	49.6	49.6	49.6
Headroom front	inch	40.3	40.3	40.3	40.3	40.3	40.3
Maximum headroom 2nd row	inch	36.5	36.5	36.5	36.5	36.5	36.5
Front Seat Volume	ft³	55.8	55.8	55.8	55.8	55.8	55.8
Rear Seat Volume	ft³	31.9	31.9	31.9	31.9	31.9	31.9
Press Trunk volume (SAE)	ft³	10.6-12.4	10.6-12.4	10.6-12.4	10.6-12.4	10.6-12.4	10.6-12.4
US Tank capacity - series	gal	18.5	18.5	18.5	18.5	21.1	21.1
rear Weight distribution (empty car)	%	51.1	49.5	49.6	47.7	49.3	49.1
US Curb weight	lbs	4250	4415	4490	4640	4480	4515
Engine							
Engine type	--	N55B3000	N55B3000	N63B4401	N63B4401	S63B44T0	S63B44T0
Cylinders	--	6	6	8	8	8	8
Valves p.cyl.	--	4	4	4	4	4	4
Stroke	mm	89.6	89.6	88.3	88.3	88.3	88.3
Bore	mm	84	84	89	89	89	89
Displacement	cm³	2979	2979	4395	4395	4395	4395
Compression rate	:1	10.2	10.2	10	10	10	10
Engine power	hp@rpm	315@5800-6000	315@5800-6000	445@5500-6000	445@5500-6000	552@6000-7000	552@6000-7000
Engine torque	lb-ft@rpm	332@1300-4500	332@1300-4500	480@2000-4500	480@2000-4500	502@1500-5750	502@1500-5750
Fuel type	--	gasoline	gasoline	gasoline	gasoline	gasoline	gasoline
Useable Fuel quality	--	ROZ91-98	ROZ91-98	ROZ91-98	ROZ91-98	ROZ91-98	ROZ91-98
recomm.	--	ROZ95	ROZ95	ROZ95	ROZ95	ROZ98	ROZ98
Engine oil (filling quantity)	liter	6.5	6.5	9.5	9.5	8.5	8.5
Transmission							
Transmission designation	--	8HP45	8HP45	8HP70	8HP70	G	M DKG 436
Transmission type	--	automatic transmission	automatic transmission	automatic transmission	automatic transmission	manual transmission	DKG
Gear ratios							
1st gear	--	4.714	4.714	4.714	4.714	4.055	4.806
2nd	--	3.143	3.143	3.143	3.143	2.396	2.593
3rd	--	2.106	2.106	2.106	2.106	1.582	1.701
4th	--	1.667	1.667	1.667	1.667	1.192	1.277
5th	--	1.285	1.285	1.285	1.285	1	1
6th	--	1	1	1	1	0.872	0.844
7th	--	0.839	0.839	0.839	0.839	-	0.671
8th	--	0.667	0.667	0.667	0.667	-	-
Reverse gear	--	3.295	3.295	3.317	3.317	3.677	4.172
Final drive ratio	--	3.231	3.231	2.813	2.813	3.154	3.154

		640i	640i xDrive	650i	650i xDrive	M6	M6 DCT
Transmission type		automatic	automatic	automatic	automatic	manual transmission	DCT
Chassis and Suspension							
Power-steering	--	EPS	hydraulic	EPS	hydraulic	hydraulic	hydraulic
Steering transmission, overall	:1	17.2	18.7	17.2	18.7	13.1	13.1
Front tires	--	245/45 R18 100V XL AS	245/45 R18 100V XL AS	245/40 R19 98V XL AS	245/40 R19 98V XL AS	265/40 ZR19 102Y XL	265/40 ZR19 102Y XL
Front rims	--	8J x 18 LM	8J x 18 LM	8,5J x 19 LM	8,5J x 19 LM	9.5J x 19	9.5J x 19
Rear tires	--	245/45 R18 100V XL AS	245/45 R18 100V XL AS	245/40 R19 98V XL AS	245/40 R19 98V XL AS	295/35 ZR19 104Y XL	295/35 ZR19 104Y XL
Rear rims	--	8J x 18 LM	8J x 18 LM	8,5J x 19 LM	8,5J x 19 LM	10.5J x 19	10.5J x 19
Track front	inch	63	63	62.8	62.8	64.2	64.2
Rear track	inch	65.6	65.6	65.3	65.3	63.5	63.5
Performance							
Top speed	mph	130	130	130	130	156	156
Top speed opt	mph	150	150	150	150	-	190
0-60 mph	s	5.4	5.3	4.5	4.4	4.4	4.3
A	m²	2.23	2.23	2.23	2.23	2.29	2.29
Cx	--	0.31	0.32	0.32	0.33	0.33	0.33
Air resistance	m²	0.69	0.71	0.71	0.74	0.76	0.76
Emission classification (type-certified)	--	ULEV II	ULEV II	ULEV II	ULEV II	LEV II	LEV II
Battery Capacity (low voltage)	Ah	105	105	105	105	105	105
System voltage (low voltage)	V	12	12	12	12	12	12
Fuel economy							
Fuel cons. city (official EPA)	mpg	20	19	17	15	15	14
Fuel cons. highway (official EPA)	mpg	29	28	24	24	22	20
Fuel cons. combined (official EPA)	mpg	23	22	19	18	17	16