

BMW

U.S. Media Information

Technical Data

2018 BMW 5 Series Sedan

		530i	530i xDrive	540i	540i xDrive	M550i xDrive	530e	530e xDrive
Transmission type		automatic	automatic	automatic	automatic	automatic	automatic	automatic
Body								
Seats	--	5	5	5	5	5	5	5
Number of Doors	--	4	4	4	4	4	4	4
Drive type	--	RWD	AWD	RWD	AWD	AWD	RWD	AWD
Vehicle length	inch	194.6	194.6	194.6	194.6	195.4	194.6	194.6
Vehicle width	inch	73.5	73.5	73.5	73.5	73.5	73.5	73.5
Width including mirrors	inch	83.7	83.7	83.7	83.7	83.7	83.7	83.7
Vehicle height	inch	58.2	58.2	58.2	58.2	57.8	58.4	58.4
Wheelbase	inch	117.1	117.1	117.1	117.1	117.1	117.1	117.1
Overhang front	inch	34.2	34.2	34.2	34.2	34.5	34.2	34.2
Rear overhang	inch	43.3	43.3	43.3	43.3	43.7	43.3	43.3
Ground clearance	inch	5.7	5.5	5.7	5.5	5.2	5.9	5.7
Turning circle	ft	39.5	40.1	39.5	40.1	40.2	39.5	40.2
Legroom front	inch	41.4	41.4	41.4	41.4	41.4	41.4	41.4
Legroom 2nd row	inch	36.5	36.5	36.5	36.5	36.5	36.5	36.5
Shoulder room front	inch	58.7	58.7	58.7	58.7	58.7	58.7	58.7
Shoulder room rear	inch	55.9	55.9	55.9	55.9	55.9	55.9	55.9
Headroom front with Moonroof	inch	38.8	38.8	38.8	38.8	38.8	38.8	38.8
Maximum headroom 2nd row with moonroof	inch	37.5	37.5	37.5	37.5	37.5	37.5	37.5
Press Trunk volume (SAE)	ft³	18.7	18.7	18.7	18.7	18.7	14.5	14.5
US Fuel Tank capacity	gal	18	18	18	18	18	12.1	12.1
rear Weight distribution (empty car)	%	48.5	47.5	47.8	46.2	45.2	51.4	50.6
US Curb weight	lbs	3746	3878	3847	4019	4372	4266	4385
Engine								
Engine type	--	B46B2000	B46B2000	B58B30M0	B58B30M0	N63B44O2	B46B2000	B46B2000
Cylinders	--	4	4	6	6	8	4	4
Valves per cylinder	--	4	4	4	4	4	4	4
Stroke	mm	94.6	94.6	94.6	94.6	88.3	94.6	94.6
Bore	mm	82	82	82	82	89	82	82
Displacement	cm³	1998	1998	2998	2998	4395	1998	1998
Compression rate	:1	10.2	10.2	11	11	10.5	10.2	10.2
Engine power	hp@rpm	248@5200-6500	248@5200-6500	335@5500-6500	335@5500-6500	456@5500-6000	180@4000-6500	180@4000-6500
Engine torque	lb-ft@rpm	258@1450-4800	258@1450-4800	332@1380-5200	332@1380-5200	480@1800-4750	255@1450-3500	255@1450-3500
Engine power (total system)	hp@rpm	-	-	-	-	-	248@4000-6500	248@4000-6500
Engine torque (total system)	lb-ft@rpm	-	-	-	-	-	310@1450-3500	310@1450-3500
Fuel type	--	gasoline	gasoline	gasoline	gasoline	gasoline	gasoline	gasoline
Useable Fuel quality	--	AKI 89 MIN	AKI 89 MIN	AKI 89 MIN	AKI 89 MIN	AKI 89 MIN	AKI 89 MIN	AKI 89 MIN
Recommended Fuel quality	--	AKI 91	AKI 91	AKI 91	AKI 91	AKI 91	AKI 91	AKI 91
Engine oil (filling quantity)	liter	5.25	5.25	6.5	6.5	10	5.25	5.25
Transmission								
Transmission designation	--	8HP50	8HP50	8HP50	8HP50	8HP75	8P75H	8P75H
Transmission type	--	automatic transmission	automatic transmission	automatic transmission	automatic transmission	automatic transmission	automatic transmission	automatic transmission
Gear ratios								
1st gear	--	5	5	5	5	5	4.714	4.714
2nd	--	3.2	3.2	3.2	3.2	3.2	3.143	3.143

		530i	530i xDrive	540i	540i xDrive	M550i xDrive	530e	530e xDrive
3rd	--	2.143	2.143	2.143	2.143	2.143	2.106	2.106
4th	--	1.72	1.72	1.72	1.72	1.72	1.667	1.667
5th	--	1.314	1.314	1.314	1.314	1.313	1.285	1.285
6th	--	1	1	1	1	1	1	1
7th	--	0.822	0.822	0.822	0.822	0.823	0.839	0.839
8th	--	0.64	0.64	0.64	0.64	0.64	0.667	0.667
Reverse gear	--	3.456	3.456	3.456	3.456	3.478	3.317	3.317
Final drive ratio	--	2.929	2.929	2.929	2.929	2.813	3.231	3.231
Power-steering	--	EPS	EPS	EPS	EPS	EPS	EPS	EPS
Steering transmission, overall	:1	16.3	16.3	16.3	16.3	16.3	16.3	16.3
Chassis and Suspension								
Front tires	--	225/55 R17 97H AS	225/55 R17 97H AS	245/45 R18 100H XL AS	245/45 R18 100H XL AS	245/40 R19 98Y XL	225/55 R17 97H AS	225/55 R17 97H AS
Front rims	--	7.5J x 17 LM	7.5J x 17 LM	8J x 18 LM	8J x 18 LM	8J x 19 LM	7.5J x 17 LM	7.5J x 17 LM
Rear tires	--	225/55 R17 97H AS	225/55 R17 97H AS	245/45 R18 100H XL AS	245/45 R18 100H XL AS	275/35 R19 100Y XL	225/55 R17 97H AS	225/55 R17 97H AS
Rear rims	--	7.5J x 17 LM	7.5J x 17 LM	8J x 18 LM	8J x 18 LM	9J x 19 LM	7.5J x 17 LM	7.5J x 17 LM
Track front	inch	63.2	63.2	63	63	63	63.1	63.1
Rear track	inch	64.2	64.2	63.9	63.9	62.9	64.2	64.2
Performance								
Top speed	mph	130	130	130	130	130	130	130
Top speed (Optional)	mph	155	155	155	155	155	146	146
0-60 mph	s	6.0	5.8	4.9	4.7	3.9	6.0	5.8
Air resistance	m ²	0.61	0.63	0.61	0.63	0.66	0.61	0.63
A	m ²	2.35	2.35	2.35	2.35	2.35	2.35	2.35
Cx	--	0.26	0.27	0.26	0.27	0.28	0.26	0.27
Battery Capacity (low voltage)	Ah	105	105	90	90	90	90	90
System voltage (low voltage)	V	12	12	12	12	12	12	12
Fuel Economy								
Fuel cons. city (official EPA)	mpg	tbc	tbc	tbc	tbc	16	-	-
Fuel cons. highway (official EPA)	mpg	tbc	tbc	tbc	tbc	25	-	-
Fuel cons. combined (official EPA)	mpg	tbc	tbc	tbc	tbc	19	29	28
Fuel economy combined city/highway Gasoline + electric (official EPA)	MPGe	-	-	-	-	-	72	67