

BMW

U.S. Media Information

Technical Data

2017 BMW 7 Series Sedan

		740i	740i xDrive	750i	750i xDrive	740e xDrive iPerformance
Transmission type		automatic	automatic	automatic	automatic	automatic
Body						
Seats	--	5	5	5	5	5
Number of Doors	--	4	4	4	4	4
drive type	--	RWD	AWD	RWD	AWD	AWD
Veh. length	inch	206.6	206.6	206.6	206.6	206.6
Veh. width	inch	74.9	74.9	74.9	74.9	74.9
Width incl mirrors	inch	85.4	85.4	85.4	85.4	85.4
Veh. height	inch	58.2	58.2	58.5	58.2	58.2
Wheelbase	inch	126.4	126.4	126.4	126.4	126.4
Overhang front	inch	35	35	35	35	35
Rear overhang	inch	45.2	45.2	45.2	45.2	45.2
Ground clearance	inch	5.3	5.3	5.3	5.3	5.3
Turning circle	ft	42	42.3	42	42.3	42.3
Legroom front	inch	41.4	41.4	41.4	41.4	41.4
Legroom 2nd row	inch	44.4	44.4	44.4	44.4	44.4
Shoulder room front	inch	59.2	59.2	59.2	59.2	59.2
Shoulder room rear	inch	57.7	57.7	57.7	57.7	57.7
Press Trunk volume (SAE)	ft³	18.2	18.2	18.2	18.2	14.8
US Tank capacity - series	gal	20.6	20.6	20.6	20.6	12.1
rear Weight distribution (empty car)	%	48.6	47.6	46.6	45.6	50.7
US Curb weight	lbs	4195	4361	4502	4623	4740
Engine						
Engine type	--	B58B30M0	B58B30M0	N63B44O2	N63B44O2	B48B20O0
Cylinders	--	6	6	8	8	4
Valves p.cyl.	--	4	4	4	4	4
Stroke	mm	94.6	94.6	88.3	88.3	94.6
Bore	mm	82	82	89	89	82
Displacement	cm³	2998	2998	4395	4395	1998
Compression rate	:1	11	11	10.5	10.5	10.2
Engine power	hp@rpm	322@5500-6500	322@5500-6500	443@5500-6000	443@5500-6000	255@5000-6500
Engine torque	lb-ft@rpm	332@1380-5000	332@1380-5000	479@1800-4500	479@1800-4500	295@1550-4400
Fuel type	--	gasoline	gasoline	gasoline	gasoline	gasoline
Useable Fuel quality	--	AKI 89 MIN	AKI 89 MIN	AKI 89 MIN	AKI 89 MIN	RO291-100
recomm.	--	AKI 91	AKI 91	AKI 91	AKI 91	RO295
Engine oil (filling quantity)	liter	6.5	6.5	9.5	9.5	5.25
Engine (1. E-engine)	--	-	-	-	-	GC1P25A
Peak Power (1. E-engine)	hp	-	-	-	-	111
Total System Power	hp	-	-	-	-	322
Total System Torque	lb-ft	-	-	-	-	369
Electrification level	--	none	none	none	none	PHEV

		740i	740i xDrive	750i	750i xDrive	740e xDrive iPerformance
		automatic	automatic	automatic	automatic	automatic
Transmission type						
Transmission						
Transmission designation	--	8HP50	8HP50	8HP75	8HP75	8P75H
Transmission type	--	automatic transmission	automatic transmission	automatic transmission	automatic transmission	automatic transmission
Gear ratios						
1st gear	--	5	5	5	5	4.714
2nd	--	3.2	3.2	3.2	3.2	3.143
3rd	--	2.143	2.143	2.143	2.143	2.106
4th	--	1.72	1.72	1.72	1.72	1.667
5th	--	1.314	1.314	1.313	1.313	1.285
6th	--	1	1	1	1	1
7th	--	0.822	0.822	0.823	0.823	0.839
8th	--	0.64	0.64	0.64	0.64	0.667
Reverse gear	--	3.456	3.456	3.478	3.478	3.317
Final drive ratio	--	3.077	3.077	2.813	2.813	3.231
Chassis and Suspension						
Power-steering	--	EPS	EPS	EPS	EPS	EPS
Steering transmission, overall	:1	16.9	16.9	16.9	16.9	16.9
Front tires	--	245/50 R18 100V AS	245/50 R18 100V AS	245/45 R19 102V XL AS	245/45 R19 102V XL AS	245/50 R18 100V
Front rims	--	8J x 18 LM	8J x 18 LM	8,5J x 19 LM	8,5J x 19 LM	8J x 18 LM
Rear tires	--	245/50 R18 100V AS	245/50 R18 100V AS	245/45 R19 102V XL AS	245/45 R19 102V XL AS	245/50 R18 100V
Rear rims	--	8J x 18 LM	8J x 18 LM	8,5J x 19 LM	8,5J x 19 LM	8J x 18 LM
Track front	inch	63.5	63.4	63.9	63.8	63.4
Rear track	inch	64.6	64.6	65	65	64.6
Run flat tires	--	yes	yes	yes	yes	yes
Performance						
Top speed	mph	130	130	130	130	130
Top speed opt	mph	155	155	155	155	155
Top speed electrical	mph	-	-	-	-	87
0-60 mph	s	5.4	5.1	4.6	4.3	5.1
A	m ²	2.42	2.42	2.42	2.42	2.42
Cx	--	0.27	0.28	0.27	0.28	0.28
Air resistance	m ²	0.65	0.68	0.65	0.68	0.68
Emission classification (type-certified)	--	ULEV	ULEV125	LEV II	ULEV	LEV II
Fuel Economy						
Fuel cons. city (official EPA)	mpg	21	19	17	16	tbc
Fuel cons. highway (official EPA)	mpg	29	28	26	25	tbc
Fuel cons. combined (official EPA)	mpg	24	22	20	19	27
Fuel cons. Gasoline + electric (official EPA)	MPGe	-	-	-	-	64
Range (electric EPA)	miles	-	-	-	-	14
Electrical System						
Battery Capacity (low voltage)	Ah	105	105	90	90	90
System voltage (low voltage)	V	12	12	12	12	12
Battery Capacity (high voltage)	Ah	-	-	-	-	26
System voltage (high voltage)	V	-	-	-	-	351
Battery type high voltage	--	-	-	-	-	Li-Ion
Gross battery content high voltage	kWh	-	-	-	-	9.2
Net battery content high voltage	kWh	-	-	-	-	6.5
Battery Position high voltage	--	-	-	-	-	underfloor exterior area, rear left (under bench)
Charging Level 2	--	-	-	-	-	AC 3.7 kW
Charging Level 2	A	-	-	-	-	16-32
Charging time Level 2 (0-80% SoC)	h	-	-	-	-	2.1
Charging time Level 2 (0-100% SoC)	h	-	-	-	-	2.7