

BMW

U.S. Media Information

Technical Data

2018 BMW 7 Series Sedan

		740i	740i xDrive	750i	750i xDrive	M760i xDrive	740e xDrive iPerformance
Transmission type		automatic	automatic	automatic	automatic	automatic	automatic
Body							
Seats	--	5	5	5	5	5	5
Number of Doors	--	4	4	4	4	4	4
drive type	--	RWD	AWD	RWD	AWD	AWD	AWD
Veh. length	inch	206.6	206.6	206.6	206.6	206.6	206.6
Veh. width	inch	74.9	74.9	74.9	74.9	74.9	74.9
Width incl mirrors	inch	85.4	85.4	85.4	85.4	85.4	85.4
Veh. height	inch	58.2	58.2	58.5	58.2	58.2	58.2
Wheelbase	inch	126.4	126.4	126.4	126.4	126.4	126.4
Overhang front	inch	35	35	35	35	35	35
Rear overhang	inch	45.2	45.2	45.2	45.2	45.2	45.2
Ground clearance	inch	5.3	5.3	5.3	5.3	5.3	5.3
Turning circle	ft	42	42.3	42	42.3	42.3	42.3
Legroom front	inch	41.4	41.4	41.4	41.4	41.4	41.4
Legroom 2nd row	inch	44.4	44.4	44.4	44.4	44.4	44.4
Shoulder room front	inch	59.2	59.2	59.2	59.2	59.2	59.2
Shoulder room rear	inch	57.7	57.7	57.7	57.7	57.7	57.7
Press Trunk volume (SAE)	ft³	18.2	18.2	18.2	18.2	18.2	14.8
US Tank capacity - series	gal	20.6	20.6	20.6	20.6	20.6	12.1
rear Weight distribution (empty car)	%	48.6	47.6	46.3	45.4	46.2	51.2
US Curb weight	lbs	4195	4361	4502	4623	5128	4740
Engine							
Engine type	--	B58B30M0	B58B30M0	N63B44O2	N63B44O2	N74B66U1	B48B20O0
Cylinders	--	6	6	8	8	12	4
Valves p.cyl.	--	4	4	4	4	4	4
Stroke	mm	94.6	94.6	88.3	88.3	88.3	94.6
Bore	mm	82	82	89	89	89	82
Displacement	cm³	2998	2998	4395	4395	6592	1998
Compression rate	:1	11	11	10.5	10.5	10	10.2
Engine power	hp@rpm	320@5500-6500	320@5500-6500	445@5500-6000	445@5500-6000	601@5500-6500	255@5000-6500
Engine torque	lb-ft@rpm	330@1380-5000	330@1380-5000	480@1800-4500	480@1800-4500	590@1550-5000	295@1550-4400
Fuel type	--	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
recomm.	--	AKI 91	AKI 91	AKI 91	AKI 91	AKI 93	AKI 91
Engine oil (filling quantity)	liter	6.5	6.5	9.5	9.5	12	5.25
Engine (1. E-engine)	--	-	-	-	-	-	GC1P25A
Peak Power (1. E-engine)	kW	-	-	-	-	-	83
Total System Power	hp	-	-	-	-	-	322

		740i	740i xDrive	750i	750i xDrive	M760i xDrive	740e xDrive iPerformance
Total System Torque	lb-ft	-	-	-	-	-	369
Electrification level	--	none	none	none	none	none	PHEV
Transmission							
Transmission designation	--	8HP50	8HP50	8HP75	8HP75	8HP95	8P75H
Transmission type	--	automatic transmission	automatic transmission	automatic transmission	automatic transmission	automatic transmission	automatic transmission
Gear ratios							
1st gear	--	5	5	5	5	5	4.714
2nd	--	3.2	3.2	3.2	3.2	3.2	3.143
3rd	--	2.143	2.143	2.143	2.143	2.143	2.106
4th	--	1.72	1.72	1.72	1.72	1.72	1.667
5th	--	1.314	1.314	1.313	1.313	1.313	1.285
6th	--	1	1	1	1	1	1
7th	--	0.822	0.822	0.823	0.823	0.823	0.839
8th	--	0.64	0.64	0.64	0.64	0.64	0.667
Reverse gear	--	3.456	3.456	3.478	3.478	3.478	3.317
Final drive ratio	--	3.077	3.077	2.813	2.813	2.813	3.231
Chassis and Suspension							
Power-steering	--	EPS	EPS	EPS	EPS	EPS	EPS
Steering transmission, overall	:1	16.9	16.9	16.9	16.9	14	16.9
Front tires	--	245/50 R18 100V AS	245/50 R18 100V AS	245/50 R18 100V AS	245/50 R18 100V AS	245/40 ZR20 99Y XL	245/50 R18 100V AS
Front rims	--	8J x 18 LM	8J x 18 LM	8J x 18 LM	8J x 18 LM	8.5J x 20 LM	8J x 18 LM
Rear tires	--	245/50 R18 100V AS	245/50 R18 100V AS	245/50 R18 100V AS	245/50 R18 100V AS	275/35 ZR20 102Y XL	245/50 R18 100V AS
Rear rims	--	8J x 18 LM	8J x 18 LM	8J x 18 LM	8J x 18 LM	10J x 20 LM	8J x 18 LM
Track front	inch	63.5	63.4	63.5	63.4	63.8	63.4
Rear track	inch	64.6	64.6	64.6	64.6	63.7	64.6
Run flat tires	--	yes	yes	yes	yes	yes	yes
Performance							
Top speed	mph	130	130	130	130	130	130
Top speed opt	mph	155	155	155	155	155	155
Top speed electrical	mph	-	-	-	-	-	87
0-60 mph	s	5.4	5.1	4.6	4.3	3.6	5.1
A	m ²	2.42	2.42	2.42	2.42	2.42	2.42
Cx	--	0.27	0.28	0.27	0.28	0.31	0.28
Air resistance	m ²	0.65	0.68	0.65	0.68	0.75	0.68

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Fuel Economy							
Fuel cons. city (official EPA)	mpg	21	20	17	16	13	-
Fuel cons. highway (official EPA)	mpg	29	29	25	25	20	-
Fuel cons. combined (official EPA)	mpg	24	23	20	19	16	-
Fuel cons. Gasoline + electric (official EPA)	MPGe	-	-	-	-	-	64
Range (electric EPA)	miles	-	-	-	-	-	tbc
Electrical System							
Battery Capacity (low voltage)	Ah	105	105	90	90	105	90
System voltage (low voltage)	V	12	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 Variation 2	--	-	-	-	-	-	AC 3.7 kW
Charging time Level 2 (0-80% SoC)	h	-	-	-	-	-	1.8
Charging time Level 2 (0-100% SoC)	h	-	-	-	-	-	5.5