

BMW

U.S. Media Information

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Technical Data.

2011 BMW ActiveHybrid 7.

		ActiveHybrid 7 Sedan Hybrid Auto 8 Speed	ActiveHybrid 7 L Sedan Hybrid Auto 8 Speed
10.01.2010			
Body			
No. of Doors / Seating Capacity	-	4 / 5	4 / 5
Vehicle Length	mm / inch	5074 / 199.8	5214 / 205.3
Vehicle Width	mm / inch	1902 / 74.9	1902 / 74.9
Vehicle Height, Unloaded	mm / inch	1485 / 58.5	1484 / 58.4
Wheelbase	mm / inch	3070 / 120.9	3210 / 126.4
Turning Circle	m / ft	12.5 / 41.0	13.0 / 42.7
Track, Front	mm / inch	1621 / 63.8	1611 / 63.4
Track, Rear	mm / inch	1632 / 64.3	1650 / 65.0
Width at Shoulderheight, Front	mm / inch	1503 / 59.2	1503 / 59.2
Width at Shoulderheight, Rear	mm / inch	1458 / 57.4	1458 / 57.4
Effective Leg Room, Front	mm / inch	1048 / 41.3	1046 / 41.3
Effective Leg Room, Rear	mm / inch	987 / 38.9	1124 / 44.3
Effective Head Room, Front	mm / inch	1032 / 40.6	1036 / 40.8
Effective Head Room, Rear	mm / inch	978 / 38.5	988 / 38.9
Trunk Volume acc SAE1100	ft³	13	13
Fuel Capacity	L / gal	80 / 21.1	80 / 21.1
Curb Weight	kg / lbs	2175 / 4795	2195 / 4839
Weight Distribution, Front / Rear	%	51.3 / 48.7	51.5 / 48.5
Gross Vehicle Weight Rating (GVWR)	kg / lbs	2640 / 5820	2675 / 5897
Payload	kg / lbs	460 / 1014	460 / 1014
Axle Load Limit, front	kg / lbs	1310 / 2888	1320 / 2910
Axle Load Limit, rear	kg / lbs	1430 / 3153	1450 / 3197
Towing Capacity	kg / lbs	- / -	- / -
Roof Load Limit	kg / lbs	100 / 220	100 / 220
Drag Coefficient	Cd	0.31	0.31
Drag Cd x A	m² / ft²	0.75 / 8.07	0.75 / 8.07
Engine			
Engine Type / Cylinder / Valves per Cylinder	-	V 90 / 8 / 4 VANOS	V 90 / 8 / 4 VANOS
Engine Management System	-	MSD85 Direct Injection	MSD85 Direct Injection
Induction System	-	twin turbo reverse flow "hot V"	twin turbo reverse flow "hot V"
Boost Pressure / Overboost	Bar	0.6	0.6
Displacement	cm³ / inch³	4395 / 268.2	4395 / 268.2
Stroke	mm / inch	88.3 / 3.48	88.3 / 3.48
Bore	mm / inch	89 / 3.50	89 / 3.50
Power	SAE hp / rpm	440 / 5500-6400	440 / 5500-6400
Torque	ft lbs / rpm	480 / 1800-4500	480 / 1800-4500
Compression Ratio / Fuel type	-	10.0 / Premium	10.0 / Premium
Nominal Power Output w. eBoost	SAE hp / rpm	455 / 5500-6000	455 / 5500-6000
Max. Torque w. eBoost	ft lbs / rpm	515 / 2000-3000	515 / 2000-3000
Chassis and Suspension			
Codification of Reference Gearbox	-	Hybrid 8HP70H	Hybrid 8HP70H
Gear Ratios	I	4.714	4.714
	II	3.143	3.143
	III	2.106	2.106
	IV	1.667	1.667
	V	1.285	1.285
	VI	1.000	1.000
	VII	0.839	0.839
	VIII	0.667	0.667
Reverse Ratio	-	3.317	3.317
Final Drive Ratio	-	2.810	2.810
Steering Type / Ratio	-	Rack-and-pinion / 19.1	Rack-and-pinion / 19.1
Front Brakes / Diameter	- / mm / inch	Vent. Disc / 374 / 14.7	Vent. Disc / 374 / 14.7
Rear Brakes / Diameter	- / mm / inch	Vent. Disc / 370 / 14.6	Vent. Disc / 370 / 14.6
Tire Type, Front	-	245/45 R19 98Y RSC AS	245/45 R19 98Y RSC AS
Tire Type, Rear	-	275/40 R19 101Y RSC AS	275/40 R19 101Y RSC AS
Wheels, Front	-	8.5J x 19 Light alloy	8.5J x 19 Light alloy
Wheels, Rear	-	9.5J x 19 Light alloy	9.5J x 19 Light alloy
Performance			
Top Speed	km/h / mph	240 / 150	240 / 150
Top Speed w. Sport Package	km/h / mph	240 / 150	240 / 150
Acceleration, 0-60 mph	s	4.7	4.8
Acceleration, 0-100 Km/h	s	5.0	5.1
Fuel Economy, EPA Estimate - City	mpg	17	17
Fuel Economy, EPA Estimate - Highway	mpg	24	24
Fuel Economy, EPA Estimate - Combined	mpg	20	20
Approximate Range	km / miles	680 / 425	680 / 425