

Technical data

8 Series Gran Coupé

BMW UK

	GV22 840i	GW42 840d xDrive	GV82 M850i xDrive
Basic data summary			
Transmission type ,	Automatic	Automatic	Automatic
Engine description ,	B58B30M1	B57D30T0	N63B44T3
Seats ,	5.0	5.0	5.0
Number of doors ,	N/A 4-door car	4-door car	4-door car
Engine type ,	Rear-wheel drive	Four-wheel drive	Four-wheel drive
SOV ,	01.07.2019-31.10.2019	01.07.2019-31.10.2019	01.07.2019-31.10.2019
Dimensions			
Exterior			
Label height front, upper edge, mm	466.0	466.0	476.0
Label height front, lower edge, mm	356.0	356.0	366.0
Overhang front, mm	948.0	948.0	953.0
Wheelbase, mm	3023.0	3023.0	3023.0
Turning circle, m	12.3	12.6	12.6
Width incl.mirror passengers side, mm	1063.0	1063.0	1063.0
Width inc. mirrors, mm	2137.0	2137.0	2137.0
Label angle rear, °	14.2	14.2	14.1
Ground clearance, mm	121.0	121.0	128.0
Rear overhang, mm	1103.0	1103.0	1106.0
Label height back, upper edge, mm	662.0	662.0	667.0
Length, mm	5074.0	5074.0	5082.0
Width, mm	1932.0	1932.0	1932.0
Height, mm	1401.0	1401.0	1407.0
Label height back, lower edge, mm	556.0	556.0	560.0
Width incl.mirror driver, mm	1074.0	1074.0	1074.0
Label angle front, °	-0.2	-0.2	-3.1
Interior			
internal loading (H196), mm	722.0	722.0	722.0
Maximum headroom second, mm	940.0	940.0	940.0
Maximum headroom rear, mm	943.0	943.0	943.0
Elbow width front, mm	1520.0	1520.0	1520.0
Shoulder room rear, mm	1387.0	1387.0	1387.0
Shoulder width front, mm	1454.0	1454.0	1454.0
Knee clearance, mm	105.0	105.0	105.0
Max. headroom front, mm	1031.0	1031.0	1031.0
effective legroom rear second seating row (L51-2), mm	929.0	929.0	929.0
Elbowroom rear, mm	1454.0	1454.0	1454.0
Seats	5.0	5.0	5.0
Headroom front/SR, mm	993.0	993.0	993.0
effective legroom front (L34), mm	1070.0	1070.0	1070.0
seats second row	3.0	3.0	3.0
Distance, front wheel middle to middle luggage compartment	3309.0	3309.0	3309.0
Distance, front wheel middle to SRP, mm	1634.0	1634.0	1634.0
Distance, front wheel middle to SRP 2. SR, mm	2519.0	2519.0	2519.0
Luggage volumes			
Luggage volumes (V210-2), l	440.0	440.0	440.0
Weight			
Vehicle weights			
Payload, kg	635.0	635.0	605.0
vehicle curb weight without driver (rear axle), kg	890.0	940.0	930.0
vehicle curb weight without driver (front axle), kg	910.0	985.0	1065.0
vehicle curb weight with driver (rear axle), kg	931.0	981.0	971.0
rear Weight distribution (empty car), %	49.4	48.8	46.6
rear axle load limit, kg	1360.0	1425.0	1390.0
vehicle curb weight with driver (front axle), kg	944.0	1019.0	1099.0
Axle load limit front, kg	1170.0	1235.0	1300.0
Gross veh. weight, kg	2435.0	2560.0	2600.0
Curb weight (with driver), kg	1875.0	2000.0	2070.0
Curb weight (without driver), kg	1800.0	1925.0	1995.0
others			
-Maximale Masse der Zusatzausrüstung, kg	156.0	144.0	119.0
Roof load, kg	75.0	75.0	75.0
Performance /fuel eco.			
Performance			
Final drive ratio	2.929	2.647	2.813
0-100Km/h, s	5.2	5.1	3.9
Top speed, km/h	250.0	250.0	250.0
Motor data			
Communication			
Output per litre, kW/dm³	83.4	78.5	88.7
Power to weight ratio, kg/kW	7.2	8.2	5.1
Motor			
Rated engine power (kW), kW	250.0	235.0	390.0
Useable Fuel quality	RON 91 MIN, E25 MAX	Diesel	ROZ 91 MIN, E25 MAX
Fuel type	gasoline	diesel	gasoline
Engine torque, Nm	500.0	680.0	750.0
recomm.	RON 95	Diesel	RON 95
Stroke, mm	94.6	90.0	88.3
Cylinders	6.0	6.0	8.0
maximum Engine speed at maximum power, 1/min	6500.0	4400.0	6000.0
minimum Engine speed at maximum power, 1/min	5000.0	4400.0	5500.0
Engine power (HP), PS	340.0	320.0	530.0
rpm at maximum power, 1/min	5000-6500	4400-4400	5500-6000
Compression rate, :1	11.0	16.5	10.5

rpm at maximum torque, 1/min	1600-4500	1750-2250	1800-4600
Displacement, cm ³	2998.0	2993.0	4395.0
maximum Engine speed at maximum torque, 1/min	4500.0	2250.0	4600.0
Valves p.cyl.	4.0	4.0	4.0
Engine type	B58B30M1	B57D30T0	N63B44T3
minimum Engine speed at maximum torque, 1/min	1600.0	1750.0	1800.0
Bore, mm	82.0	84.0	89.0
Engine oil (exchange quantity), l	6.5	6.5	10.5
Gearbox			
Combustion engine			
5th**	1.316	1.317	1.317
Reverse gear**	3.712	3.993	3.993
Gear ratios 1st gear**	5.25	5.5	5.5
8th**	0.64	0.64	0.64
2nd**	3.36	3.52	3.52
3rd**	2.172	2.2	2.2
7th**	0.822	0.823	0.823
4th**	1.72	1.72	1.72
Transmission type	Automatic	Automatic	Automatic
Transmission type V	GA8L51CZ	GA8X76DZ	GA8X76DZ
6th**	1.0	1.0	1.0
Nr. of gears	8	8	8
Aerodynamics			
Cx			
Cx Range, m ²	0.29-0.33	0.29-0.34	0.32-0.35
Cx Min	0.29	0.29	0.32
Cx Max	0.33	0.34	0.35
Cx x A			
Cx x A Min, m ²	0.67	0.67	0.74
Cx x A Max, m ²	0.76	0.79	0.81
Stirnflaeche			
Facing surface , m ²	2.31	2.31	2.31
Emission			
Emission classification (type-certified)***	Euro 6d-TEMP-EVAP-ISC	Euro 6d-TEMP-EVAP-ISC	Euro 6d-TEMP-EVAP-ISC
chassis			
Wheel/Tyres			
Rear tyres	275/40 R18 103 Y XL 275/30 R20 97 Y XL	275/40 R18 103 Y XL 275/30 R20 97 Y XL	275/30 R20 97 Y XL
Width of the rear track, mm	1671.0	1671.0	1671.0
Run flat tyres	no yes	no yes	no
Front tyres	245/45 R18 100 Y XL 245/35 R20 95 Y XL	245/45 R18 100 Y XL 245/35 R20 95 Y XL	245/35 R20 95 Y XL
Track front, mm	1620.0/1629.0	1619.0/1627.0	1627.0
Wheel offset rear, mm	41.0	41.0	41.0
Wheel offset front, mm	26.0/30.0	26.0/30.0	26.0
Front rims	8Jx18 LM 8Jx20 LM	8Jx18 LM 8Jx20 LM	8Jx20 LM
Rear rims	9Jx18 LM 9Jx20 LM	9Jx18 LM 9Jx20 LM	9Jx20 LM
Steering			
Power-steering	APA EPS	APA EPS	APA EPS
Steering transmission, overall, :1	16.3	14.9	14.9
Tank			
Fuel tank capacity (approx.) , l	68.0	66.0	68.0
Battery			
Battery Capacity (low voltage), Ah	90/105	90/105	90/105
System voltage (low voltage), V	12.0	12.0	12.0
SCR			
SCR (Yes/No)	No	Yes	No
SCR-Typ Activtank	N/A	G_Tank by container / refillable with car nozzle	N/A
AdBlue-Volume (Passivtank), l	N/A	10.0	N/A
SCR-Typ Passivtank	N/A	G_Tank by container / refillable with car nozzle	N/A
AdBlue-Volume (Activtank), l	N/A	8.2	N/A
Emissions information			
CO2 combined (NEDC), g/km			
Wheel cluster: 1N1, 1N3, 1N7, 1N9, 1W9	168	162	226
Wheel cluster: 1N0, 1N2, 1N6	170	166	229