



# Technical Data - Europe.

## BMW 5 Series Sedan (E60) - ACEA.

	540i Sedan	540i Sedan	550i Sedan	550i Sedan	M5 Sedan
Engine platform	N62B40O1	N62B40O1	N62B48O1	N62B48O1	S85B50
Transmission	M6	A6	M6	A6	M7
No of doors / seats	- / 4	- / 4	- / 4	- / 4	- / 4
Vehicle length / width / height -unloaded-	4841 / 1846 / 1468	4841 / 1846 / 1468	4841 / 1846 / 1468	4841 / 1846 / 1468	4855 / 1846 / 1469
Weelbase / Turning cicle	2888 / 11,4	2888 / 11,4	2888 / 11,4	2888 / 11,4	2889 / 12,4
Track front / rear	1558 / 1581	1558 / 1581	1558 / 1581	1558 / 1581	1580 / 1566
Overhang rear	1101	1101	1101	1101	1109
Ground clearance -empty-	142	142	142	142	-
Shoulder width front / rear	1456 / 1452	1456 / 1452	1456 / 1452	1456 / 1452	1456 / 1452
Elbow width front / rear	1484 / 1496	1484 / 1496	1484 / 1496	1484 / 1496	1484 / 1496
Eff. head room front / rear	993 / 967	993 / 967	993 / 967	993 / 967	993 / 967
Luggage capacity	0,520	0,520	0,520	0,520	0,500
Fuel tank capacity	70	70	70	70	70
Curb weight -acc DIN-	1650 / 1725	1660 / 1735	1660 / 1735	1660 / 1735	1755 / 1830
Axle load ratio -unloaded DIN-	48,8	48,5	48,8	48,8	47,4
Gross vehicle weight / Payload	2210 / 560	2220 / 560	2220 / 560	2220 / 560	2300 / 545
Axle load limit front / rear	1070 / 1230	1070 / 1230	1070 / 1235	1070 / 1235	1090 / 1270
Trailer load braked -12% / 8%-	2000 / 2000	2000 / 2000	2000 / 2000	2000 / 2000	2000 / 2000
Trailer load unbraked / roof load	750 / 100	750 / 100	750 / 100	750 / 100	750 / 100
Engine type / cylinder / valves p cyl	- / V 90 / 8 / 4	- / V 90 / 8 / 4	- / V 90 / 8 / 4	- / V 90 / 8 / 4	- / V 90 / 10 / 4
Fuel management	ME9,2,3	ME9,2,3	ME9,2,3	ME9,2,3	BMW MS S65
Effective displacement	4000	4000	4799	4799	4999
Stroke / Bore	84,1 / 87	84,1 / 87	88,3 / 93	88,3 / 93	75,2 / 92
Nom power output / Engine speed	225 (306) / 6300	225 (306) / 6300	270 (367) / 6300	270 (367) / 6300	373 (507) / 7750
Max torque / Engine speed	390 / 3500	390 / 3500	490 / 3400	490 / 3400	520 / 6100
RPM at max torque -range-	see 'Tor./Engine speed'	see 'Tor./Engine speed'	see 'Tor./Engine speed'	see 'Tor./Engine speed'	see 'Tor./Engine speed'
Compression ratio / Fuel type	10,5 / ROZ91-98	10,5 / ROZ91-98	10,5 / ROZ91-98	10,5 / ROZ91-98	12 / ROZ95-98
Exhaust emissions classification	EU4	EU4	EU4	EU4	EU4
Codification of reference gearbox	ZF G	ZF 6HP26 Tü	ZF G	ZF 6HP26 Tü	BMW SMG III 247
Gear ratio 1st/2nd/3rd	4,055 / 2,396 / 1,582	4,171 / 2,34 / 1,521	4,055 / 2,396 / 1,582	4,171 / 2,34 / 1,521	3,985 / 2,652 / 1,806
Gear ratio 4th/5th/6th/7th	1,192 / 1 / 0,872 / -	1,143 / 0,867 / 0,691 / -	1,192 / 1 / 0,872 / -	1,143 / 0,867 / 0,691 / -	1,392 / 1,159 / 1 / 0,833
Reverse ratio	3,677	3,403	3,677	3,403	3,985
Final drive ratio	3,08	3,38	2,93	3,38	3,62
Steering type / ratio	- / Rack-and-pinion / 13,7	- / Rack-and-pinion / 13,7	- / Rack-and-pinion / 13,7	- / Rack-and-pinion / 13,7	- / Rack-and-pinion / 12,4
Brake front / diameter	- /mm / Ventilated Disc / 348	- /mm / Ventilated Disc / 348	- /mm / Ventilated Disc / 348	- /mm / Ventilated Disc / 348	- /mm / Ventilated Disc / 374
Brake rear / diameter	- /mm / Ventilated Disc / 345	- /mm / Ventilated Disc / 345	- /mm / Ventilated Disc / 345	- /mm / Ventilated Disc / 345	- /mm / Ventilated Disc / 370
Drag Cd / A / Cd x A	- / m² / m²	0,28 / 2,26 / 0,63	0,27 / 2,26 / 0,61	0,28 / 2,26 / 0,63	0,27 / 2,26 / 0,61
Top speed	250	250	250	250	250
Acceleration 0-100 Km/h	6,1	6,2	5,2	5,3	4,7
Acceleration 0-1000 m	25,7	25,8	24,1	24,3	22,7
Accel 80-120 Km/h 4/5 Gear	6,2 / - / -	- / - / -	5,1 / - / -	- / - / -	- / - / -
Weight ratio	7,3	7,4	6,1	6,1	4,7
Output per litre	56,2	56,2	56,3	56,3	74,6
Fuel consumption -EU urban-	15,8	14,4	16,6	15,5	22,7
Fuel consumption -EU extra-urban-	7,4	6,9	7,6	7,2	10,2
Fuel consumption KV01 / Range	10,5 / 665	9,7 / 720	10,9 / 640	10,3 / 675	14,8 / 470
CO2-emission -EU-	250	232	260	246	357
Tyre type -front-	- / 225/50 R17 94W	- / 225/50 R17 94W	- / 225/50 R17 94W	- / 225/50 R17 94W	- / 255/40 ZR19
Tyre type -rear-	- / 225/50 R17 94W	- / 225/50 R17 94W	- / 225/50 R17 94W	- / 225/50 R17 94W	- / 285/35 ZR19
Front rim	- / 7,5J x 17 Light alloy	- / 7,5J x 17 Light alloy	- / 8J x 17 Light alloy	- / 8J x 17 Light alloy	- / 8,5J x 19 Light alloy
Rear rim	- / 7,5J x 17 Light alloy	- / 7,5J x 17 Light alloy	- / 8J x 17 Light alloy	- / 8J x 17 Light alloy	- / 9,5J x 19 Light alloy
Wheel offset -front/rear-	mm / 20 / 20	mm / 20 / 20	mm / 20 / 20	mm / 20 / 20	mm / 12 / 28
Radiator incl. heater / Engine oil exchange quantity	litr / 13,8 / 8	litr / 14,2 / 8	litr / 13,8 / 8	litr / 14,2 / 8	litr / 15 / 9,3
Transmission fluid -exchange quantity-	litr / Permanent filling	litr / Permanent filling	litr / Permanent filling	litr / Permanent filling	Exch. quantity ( 2,4 )
Battery capacity / installed position	Ah/- / 90 / Luggage comp.	Ah/- / 90 / Luggage comp.	Ah/- / 90 / Luggage comp.	Ah/- / 90 / Luggage comp.	Ah/- / 90 / Luggage comp.
Alternator output rating	A/W / 180 / 2520	A/W / 180 / 2520	A/W / 180 / 2520	A/W / 180 / 2520	A/W / 170 / 2380



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## BMW 5 Series Sedan (E60) - ACEA.

	525xi Sedan	525xi Sedan	530xi Sedan	530xi Sedan	530xd Sedan	530xd Sedan
Engine platform	N53B30U0	N53B30U0	N53B30O0	N53B30O0	M57D30O2	M57D30O2
Transmission	M6	A6	M6	A6	M6	A6
No of doors / seats	- / 4 / 5	- / 4 / 5	- / 4 / 5	- / 4 / 5	- / 4 / 5	- / 4 / 5
Vehicle length / width / height -unloaded-	mm 4841 / 1846 / 1482	mm 4841 / 1846 / 1482	mm 4841 / 1846 / 1482	mm 4841 / 1846 / 1482	mm 4841 / 1846 / 1482	mm 4841 / 1846 / 1482
Weelbase / Turning cicle	mm / m 2888 / 11,9	mm / m 2888 / 11,9	mm / m 2888 / 11,9	mm / m 2888 / 11,9	mm / m 2888 / 11,9	mm / m 2888 / 11,9
Track front / rear	mm 1558 / 1581	mm 1558 / 1581	mm 1558 / 1581	mm 1558 / 1581	mm 1558 / 1581	mm 1558 / 1581
Overhang rear	mm 1101	mm 1101	mm 1101	mm 1111	mm 1101	mm 1101
Ground clearance -empty-	mm 142	mm 142	mm 142	mm 142	mm 142	mm 142
Shoulder width front / rear	mm 1456 / 1452	mm 1456 / 1452	mm 1456 / 1452	mm 1456 / 1452	mm 1456 / 1452	mm 1456 / 1452
Elbow width front / rear	mm 1484 / 1496	mm 1484 / 1496	mm 1484 / 1496	mm 1484 / 1496	mm 1484 / 1496	mm 1484 / 1496
Eff. head room front / rear	mm 993 / 967	mm 993 / 967	mm 993 / 967	mm 993 / 967	mm 993 / 967	mm 993 / 967
Luggage capacity	m³ 0,520	m³ 0,520	m³ 0,520	m³ 0,520	m³ 0,520	m³ 0,520
Fuel tank capacity	ltr 70	ltr 70	ltr 70	ltr 70	ltr 70	ltr 70
Curb weight -acc DIN-	kg 1625 / 1700	kg 1645 / 1720	kg 1635 / 1710	kg 1655 / 1730	kg 1685 / 1760	kg 1705 / 1780
Axle load ratio -unloaded DIN-	% 47,7	% 47,7	% 48,0	% 47,7	% 47,5	% 46,9
Gross vehicle weight / Payload	kg 2185 / 560	kg 2205 / 560	kg 2195 / 560	kg 2215 / 560	kg 2245 / 560	kg 2265 / 560
Axle load limit front / rear	kg 1050 / 1200	kg 1050 / 1200	kg 1050 / 1200	kg 1050 / 1200	kg 1090 / 1220	kg 1090 / 1220
Trailer load braked -12% / 8%-	kg 1800 / 2000	kg 2000 / 2000	kg 2000 / 2000	kg 2000 / 2000	kg 2000 / 2000	kg 2000 / 2000
Trailer load unbraked / roof load	kg 750 / 100	kg 750 / 100	kg 750 / 100	kg 750 / 100	kg 750 / 100	kg 750 / 100
Engine type / cylinder / valves p cyl	- In line / 6 / 4	- In line / 6 / 4	- In line / 6 / 4	- In line / 6 / 4	- In line / 6 / 4	- In line / 6 / 4
Fuel management	- MSD80	- MSD80	- MSD80	- MSD80	- DDE6,2,6	- DDE6,2,6
Effective displacement	cm³ 2996	cm³ 2996	cm³ 2996	cm³ 2996	cm³ 2993	cm³ 2993
Stroke / Bore	mm 88 / 85	mm 88 / 85	mm 88 / 85	mm 88 / 85	mm 90 / 84	mm 90 / 84
Nom power output / Engine speed	kW(hp) / 1/min 160 (218) / 6100	kW(hp) / 1/min 160 (218) / 6100	kW(hp) / 1/min 200 (272) / 6700	kW(hp) / 1/min 200 (272) / 6700	kW(hp) / 1/min 173 (235) / 4000	kW(hp) / 1/min 173 (235) / 4000
Max torque / Engine speed	Nm / 1/min 270 / 2400	Nm / 1/min 270 / 2400	Nm / 1/min 320 / 2750	Nm / 1/min 320 / 2750	Nm / 1/min 500 / 1750	Nm / 1/min 500 / 1750
RPM at max torque -range-	1/min 2400-4200	1/min 2400-4200	1/min 2750-3000	1/min 2750-3000	1/min 1750-3000	1/min 1750-3000
Compression ratio / Fuel type	- 12 / ROZ91-98	- 12 / ROZ91-98	- 12 / ROZ91-98	- 12 / ROZ91-98	- 17 / Diesel	- 17 / Diesel
Exhaust emissions classification	- EU4	- EU4	- EU4	- EU4	- EU4	- EU4
Codification of reference gearbox	- GETRAG H	- ZF 6HP19 Tü	- ZF H	- ZF 6HP19 Tü	- ZF Gwelt	- ZF 6HP19 Tü
Gear ratio 1st/2nd/3rd	- 4,35 / 2,496 / 1,665	- 4,171 / 2,34 / 1,521	- 4,35 / 2,496 / 1,665	- 4,171 / 2,34 / 1,521	- 5,08 / 2,804 / 1,783	- 4,171 / 2,34 / 1,521
Gear ratio 4th/5th/6th/7th	- 1,23 / 1 / 0,851 / -	- 1,143 / 0,867 / 0,691 / -	- 1,23 / 1 / 0,851 / -	- 1,143 / 0,867 / 0,691 / -	- 1,26 / 1 / 0,835 / -	- 1,143 / 0,867 / 0,691 / -
Reverse ratio	- 3,926	- 3,403	- 3,926	- 3,403	- 4,607	- 3,403
Final drive ratio	- 3,23	- 3,91	- 3,23	- 3,73	- 2,56	- 2,65
Steering type / ratio	- Rack-and-pinion / 14,58	- Rack-and-pinion / 14,58	- Rack-and-pinion / 14,58	- Rack-and-pinion / 14,58	- Rack-and-pinion / 14,58	- Rack-and-pinion / 14,58
Brake front / diameter	-/mm Ventilated Disc / 324	-/mm Ventilated Disc / 324	-/mm Ventilated Disc / 324	-/mm Ventilated Disc / 324	-/mm Ventilated Disc / 324	-/mm Ventilated Disc / 324
Brake rear / diameter	-/mm Ventilated Disc / 320	-/mm Ventilated Disc / 320	-/mm Ventilated Disc / 320	-/mm Ventilated Disc / 320	-/mm Ventilated Disc / 320	-/mm Ventilated Disc / 320
Drag Cd / A / Cd x A	- / m² / m² 0,29 / 2,28 / 0,66	- / m² / m² 0,28 / 2,262 / 0,63	- / m² / m² 0,29 / 2,26 / 0,66	- / m² / m² 0,28 / 2,28 / 0,64	- / m² / m² 0,29 / 2,28 / 0,66	- / m² / m² 0,29 / 2,28 / 0,66
Top speed	km/h 240	km/h 234	km/h 250	km/h 250	km/h 242	km/h 240
Acceleration 0-100 Km/h	s 7,9	s 8,2	s 6,6	s 6,8	s 6,6	s 6,8
Acceleration 0-1000 m	s 28,3	s 28,5	s 26,5	s 26,7	s 27,0	s 27,2
Accel 80-120 Km/h 4/5 Gear	s 8,7 / - / -	s - / - / -	s 7,1 / - / -	s - / - / -	s 5,5 / - / -	s - / - / -
Weight ratio	kg/kW 10,2	kg/kW 10,3	kg/kW 8,2	kg/kW 8,3	kg/kW 9,7	kg/kW 9,9
Output per litre	kW/ltr 53,4	kW/ltr 53,4	kW/ltr 66,8	kW/ltr 66,8	kW/ltr 57,8	kW/ltr 57,8
Fuel consumption -EU urban-	ltr/100km 11,3	ltr/100km 11,2	ltr/100km 11,5	ltr/100km 11,6	ltr/100km 9,2	ltr/100km 9,6
Fuel consumption -EU extra-urban-	ltr/100km 6,2	ltr/100km 6,3	ltr/100km 6,2	ltr/100km 6,0	ltr/100km 5,5	ltr/100km 5,5
Fuel consumption KV01 / Range	ltr/100km / km 8,1 / 860	ltr/100km / km 8,1 / 860	ltr/100km / km 8,2 / 850	ltr/100km / km 8,1 / 860	ltr/100km / km 6,9 / 1010	ltr/100km / km 7 / 1000
CO2-emission -EU-	g/km 193	g/km 193	g/km 194	g/km 193	g/km 183	g/km 186
Tyre type -front-	- 225/50 R17 95W	- 225/50 R17 95W	- 225/50 R17 94W	- 225/50 R17 94W	- 225/50 R17 94W	- 225/50 R17 94W
Tyre type -rear-	- 225/50 R17 95W	- 225/50 R17 95W	- 225/50 R17 94W	- 225/50 R17 94W	- 225/50 R17 94W	- 225/50 R17 94W
Front rim	- 7,5J x 17 Light alloy	- 7,5J x 17 Light alloy	- 7,5J x 17 Light alloy	- 7,5J x 17 Light alloy	- 7,5J x 17 Light alloy	- 7,5J x 17 Light alloy
Rear rim	- 7,5J x 17 Light alloy	- 7,5J x 17 Light alloy	- 7,5J x 17 Light alloy	- 7,5J x 17 Light alloy	- 7,5J x 17 Light alloy	- 7,5J x 17 Light alloy
Wheel offset -front/rear-	mm 43 / 43	mm 43 / 43	mm 43 / 43	mm 43 / 43	mm 43 / 43	mm 43 / 43
Radiator incl. heater / Engine oil exchange quantity	ltr 10 / 6,5	ltr 10,5 / 6,5	ltr 10,5 / 6,5	ltr 10,5 / 6,5	ltr 8 / 7,7	ltr 8,2 / 7,7
Transmission fluid -exchange quantity-	ltr Permanent filling	ltr Permanent filling	ltr Permanent filling	ltr Permanent filling	ltr Permanent filling	ltr Permanent filling
Battery capacity / installed position	Ah/- 80 / Luggage comp.	Ah/- 80 / Luggage comp.	Ah/- 80 / Luggage comp.	Ah/- 80 / Luggage comp.	Ah/- 90 / Luggage comp.	Ah/- 90 / Luggage comp.
Alternator output rating	A/W 155 / 2170	A/W 155 / 2170	A/W 155 / 2170	A/W 155 / 2170	A/W 180 / 2520	A/W 180 / 2520