

Technical Data - Europe.

BMW 6 Series Coupé (E63).

	630i Coupé	630i Coupé	650i Coupé	650i Coupé	M6 Coupé
Engine platform	N52B3000	N52B3000	N62B48 TÙ	N62B48 TÙ	S85B50
Transmission	M6	A6	M6	A6	M7
No of doors / seats	- / 4	- / 4	- / 4	- / 4	- / 4
Vehicle length / width / height -unloaded-	mm 4820 / 1855 / 1373	mm 4820 / 1855 / 1373	mm 4820 / 1855 / 1373	mm 4820 / 1855 / 1373	mm 4871 / 1855 / 1372
Weelbase / Turning circle	mm / m 2780 / 11,4	mm / m 2780 / 11,4	mm / m 2780 / 11,4	mm / m 2780 / 11,4	mm / m 2781 / 12,5
Track front / rear	mm 1558 / 1596	mm 1558 / 1596	mm 1558 / 1596	mm 1558 / 1596	mm 1567 / 1584
Overhang rear	mm 1098	mm 1098	mm 1098	mm 1098	mm 1130
Ground clearance -empty-	mm 130	mm 130	mm 130	mm 130	mm -
Shoulder width front / rear	mm 1432 / 1254	mm 1432 / 1254	mm 1432 / 1254	mm 1432 / 1254	mm 1432 / 1254
Elbow width front / rear	mm 1493 / 1334	mm 1493 / 1334	mm 1493 / 1334	mm 1493 / 1334	mm 1493 / 1334
Eff. head room front / rear	mm 956 / 905	mm 956 / 905	mm 956 / 905	mm 956 / 905	mm 956 / 905
Luggage capacity	m³ 0,450	m³ 0,450	m³ 0,450	m³ 0,450	m³ 0,450
Fuel tank capacity	ltr 70	ltr 70	ltr 70	ltr 70	ltr 70
Curb weight -acc DIN-	kg 1500 / 1575	kg 1510 / 1585	kg 1640 / 1715	kg 1640 / 1715	kg 1710 / 1785
Axle load ratio -unloaded DIN-	% 49,3	% 49,0	% 47,3	% 47,3	% 46,0
Gross vehicle weight / Payload	kg 1950 / 450	kg 1960 / 450	kg 2090 / 450	kg 2090 / 450	kg 2200 / 490
Axle load limit front / rear	kg 980 / 1130	kg 980 / 1130	kg 1060 / 1170	kg 1060 / 1170	kg 1090 / 1200
Trailer load braked -12% / 8%-	kg - / -	kg - / -	kg - / -	kg - / -	kg - / -
Trailer load unbraked / roof load	kg - / -	kg - / -	kg - / -	kg - / -	kg - / -
Engine type / cylinder / valves p cyl	- In line / 6 / 4	- In line / 6 / 4	- V 90 / 8 / 4	- V 90 / 8 / 4	- V 90 / 10 / 4
Fuel management	- MSV70	- MSV70	- Bosch ME9,2,2	- Bosch ME9,2,2	- BMW MS S65
Effective displacement	cm³ 2996	cm³ 2996	cm³ 4799	cm³ 4799	cm³ 4999
Stroke / Bore	mm 88 / 85	mm 88 / 85	mm 88,3 / 93	mm 88,3 / 93	mm 75,2 / 92
Nom power output / Engine speed	kW(hp) / 1/min 190 (258) / 6600	kW(hp) / 1/min 190 (258) / 6600	kW(hp) / 1/min 270 (367) / 6300	kW(hp) / 1/min 270 (367) / 6300	kW(hp) / 1/min 373 (507) / 7750
Max torque / Engine speed	Nm / 1/min 300 / 2500	Nm / 1/min 300 / 2500	Nm / 1/min 490 / 3400	Nm / 1/min 490 / 3400	Nm / 1/min 520 / 6100
RPM at max torque -range-	1/min 2500-4000	1/min 2500-4000	see 'Tor./Engine speed'	see 'Tor./Engine speed'	see 'Tor./Engine speed'
Compression ratio / Fuel type	- 10,7 / ROZ91-98	- 10,7 / 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 H	- ZF 6HP19	- ZF G	- ZF 6HP26	- BMW SMG III 247
Gear ratio 1st/2nd/3rd	- 4,35 / 2,496 / 1,665	- 4,171 / 2,34 / 1,521	- 4,055 / 2,396 / 1,582	- 4,171 / 2,34 / 1,521	- 3,985 / 2,662 / 1,806
Gear ratio 4th/5th/6th/7th	- 1,23 / 1 / 0,851 / -	- 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	- 3,926	- 3,403	- 3,677	- 3,403	- 3,985
Final drive ratio	- 3,38	- 3,91	- 3,23	- 3,46	- 3,62
Steering type / ratio	- Rack-and-pinion / 14,4	- Rack-and-pinion / 14,4	- Rack-and-pinion / 14,4	- Rack-and-pinion / 14,4	- Rack-and-pinion / 13
Brake front / diameter	- /mm Ventilated Disc / 324	- /mm Ventilated Disc / 324	- /mm Ventilated Disc / 348	- /mm Ventilated Disc / 348	- /mm Ventilated Disc / 374
Brake rear / diameter	- /mm Ventilated Disc / 320	- /mm Ventilated Disc / 320	- /mm Ventilated Disc / 345	- /mm Ventilated Disc / 345	- /mm Ventilated Disc / 370
Drag Cd / A / Cd x A	- / m² / m² 0,3 / 2,15 / 0,65	- / m² / m² 0,3 / 2,15 / 0,65	- / m² / m² 0,3 / 2,15 / 0,65	- / m² / m² 0,3 / 2,15 / 0,65	- / m² / m² 0,32 / 2,15 / 0,69
Top speed	km/h 250	km/h 250	km/h 250	km/h 250	km/h 250
Acceleration 0-100 Km/h	s 6,5	s 6,7	s 5,4	s 5,5	s 4,6
Acceleration 0-1000 m	s 26,3	s 26,5	s 24,3	s 24,5	s 22,5
Accel 80-120 Km/h 4/5 Gear	s 6,5 / - / -	s - / - / -	s 4,7 / - / -	s - / - / -	s 4,4 / - / -
Weight ratio	kg/kW 7,9	kg/kW 7,9	kg/kW 6,1	kg/kW 6,1	kg/kW 4,6
Output per litre	kW/ltr 63,4	kW/ltr 63,4	kW/ltr 56,3	kW/ltr 56,3	kW/ltr 74,6
Fuel consumption -EU urban-	ltr/100km 13,1	ltr/100km 13,9	ltr/100km 17,6	ltr/100km 16,3	ltr/100km 22,7
Fuel consumption -EU extra-urban-	ltr/100km 6,7	ltr/100km 7,0	ltr/100km 8,6	ltr/100km 8,1	ltr/100km 10,2
Fuel consumption KV01 / Range	ltr/100km / km 9 / 780	ltr/100km / km 9,5 / 735	ltr/100km / km 11,9 / 590	ltr/100km / km 11,1 / 630	ltr/100km / km 14,8 / 470
CO2-emission -EU-	g/km 216	g/km 226	g/km 286	g/km 267	g/km 357
Tyre type -front-	- 245/50 R17 98W RSC	- 245/50 R17 98W RSC	- 245/45 R18 96W RSC	- 245/45 R18 96W RSC	- 255/40 ZR19
Tyre type -rear-	- 245/50 R17 98W RSC	- 245/50 R17 98W RSC	- 245/45 R18 96W RSC	- 245/45 R18 96W RSC	- 285/35 ZR19
Front rim	- 7,5 J x 17 Light alloy	- 7,5 J x 17 Light alloy	- 8 J x 18 Light alloy	- 8 J x 18 Light alloy	- 8,5 J x 19 Light alloy
Rear rim	- 7,5 J x 17 Light alloy	- 7,5 J x 17 Light alloy	- 8 J x 18 Light alloy	- 8 J x 18 Light alloy	- 9,5 J x 19 Light alloy
Wheel offset -front/rear-	mm 14 / 14	mm 14 / 14	mm 14 / 14	mm 14 / 14	mm 12 / 17
Radiator incl. heater / Engine oil exchange quantity	ltr 8,9 / 6,5	ltr 9,4 / 6,5	ltr 14,2 / 8	ltr 14,2 / 8	ltr 15 / 9,3
Transmission fluid -exchange quantity-	ltr Permanent filling	ltr Permanent filling	ltr Permanent filling (1,8)	ltr Permanent filling	Exch. quantity (2,4)
Battery capacity / installed position	Ah/- 90 / Luggage comp.	90 / Luggage comp.	90 / Luggage comp.	90 / Luggage comp.	90 / Luggage comp.
Alternator output rating	A/W 155 / 2170	155 / 2170	170 / 2380	170 / 2380	170 / 2380