

## 8. Technical specifications. BMW 220i Coupe.



BMW 220i Coupe		
<b>Body</b>		
No. of doors/seats		2 / 4
Length/width/height <sup>1)</sup> (unladen)	mm	4432 / 1774 / 1418
Wheelbase	mm	2690
Track, front/rear	mm	1521 / 1556
Ground clearance	mm	140
Turning circle	m	10.9
Tank capacity	approx. ltr	52
Cooling system incl. heating	ltr	6.9 (7.6)
Engine oil <sup>2)</sup>	ltr	5.0
Weight, unladen, to DIN/EU	kg	1350 / 1425 (1365 / 1440)
Max. load to DIN	kg	510
Max. permissible weight	kg	1860 (1875)
Max. axle load, front/rear	kg	880 / 1040
Max. trailer load, braked (12%)/unbraked	kg	1200 / 680
Max. roof load/towbar download	kg	75 / 75
Luggage comp. capacity	ltr	390
Air resistance	C <sub>d</sub> x A	0.29 x 2.14
<b>Engine</b>		
Config./No. of cyls./valves		in-line / 4 / 4
Engine technology	BMW TwinPower Turbo technology with twin-scroll turbocharger, High Precision Direct Injection, fully variable valve control (VALVETRONIC) and double-VANOS variable camshaft control	
Effective capacity	cm <sup>3</sup>	1997
Bore/stroke	mm	90.1 / 84.0
Compression ratio	:1	11.0
Fuel grade		min. RON 91
Output	kW/hp	135 / 184
at	rpm	5000 – 6250
Torque	Nm	270
at	rpm	1250 – 4500
<b>Electrical System</b>		
Battery/Installation	Ah/-	80 / luggage comp.
Alternator	AW	170 / 2380
<b>Driving Dynamics and Safety</b>		
Suspension, front	Aluminium double-joint spring strut axle	
Suspension, rear	Five-link axle in lightweight steel construction with double elastic bearing	
Brakes, front	Single-piston floating-calliper disc brakes	
Brakes, rear	Single-piston floating-calliper disc brakes	
Driving stability systems	Standard: DSC incl. ABS, ASC and DTC (Dynamic Traction Control), CBC (Cornering Brake Control), DBC (Dynamic Brake Control), Dry Braking function, Fading Compensation, Start-Off Assistant	
Safety equipment	Standard: airbags for driver and front passenger, side airbags for driver and front passenger, head airbags front and rear, three-point inertia-reel seatbelts on all seats with belt tensioner and belt force limiter at the front, crash sensors, Tyre Defect Indicator	
Steering	Electric Power Steering (EPS), optional: Servotronic function, variable sport steering	
Steering ratio, overall	:1	15.0
Tyres, front/rear		205/55 R16 91W
Rims, front/rear		7J x 16 light-alloy

BMW 220i Coupe			
Transmission			
Type of gearbox		6-speed manual gearbox (optional: 8-speed automatic with Steptronic)	
Gear ratios	I	:1	4.551 (4.714)
	II	:1	2.548 (3.143)
	III	:1	1.659 (2.106)
	IV	:1	1.230 (1.667)
	V	:1	1.000 (1.285)
	VI	:1	0.830 (1.000)
	VII	:1	– (0.839)
	VIII	:1	– (0.667)
	R	:1	4.138 (3.295)
Final drive		:1	3.077 (3.077)
Performance			
Power-to-weight ratio (DIN)		kg/kW	10.0 (10.1)
Output per litre		kW/ltr	67.6
Acceleration	0–100 km/h	s	7.0 (7.0)
	0–1000 m	s	27.3 (27.7)
in 4th/5th gear	80–120 km/h	s	6.9 / 8.3 (– / –)
Top speed		km/h	235 (230)
BMW EfficientDynamics			
BMW EfficientDynamics, standard features		Brake Energy Regeneration with recuperation display, Electric Power Steering (EPS), Auto Start Stop function, Optimum Gearshift Indicator (manual gearbox), ECO PRO mode with coasting function, intelligent lightweight construction, optimised aerodynamic attributes, on-demand operation of ancillary units, map-controlled oil pump, detachable a/c compressor, final drive with optimised warm-up behaviour, tyres with reduced roll resistance	
Fuel consumption EU <sup>3)</sup>			
With standard tyres			
Urban		ltr/100 km	8.3 (7.7)
Extra-urban		ltr/100 km	4.8 (4.6)
Combined		ltr/100 km	6.1 (5.7)
CO <sub>2</sub>		g/km	142 (134)
with rims 7J x 17 and tyres 205/50 R17, with rims 7.5J x 17 and tyres 225/45 R 17 as well as winter tyres, with rims 7.5J x 17 front, 8J x 17 rear and tyres 225/45 R17 front, 245/40 R17 rear, with rims 7.5J x 18 front, 8J x 18 rear and tyres 225/40 R18 front, 245/35 R18 rear			
Urban		ltr/100 km	8.7 (8.0)
Extra-urban		ltr/100 km	5.0 (4.8)
Combined		ltr/100 km	6.3 (6.0)
CO <sub>2</sub>		g/km	148 (139)
Emission rating			EU6

Specifications apply to ACEA markets; data relevant to homologation applicable in part only to Germany (weight)  
Figures in brackets apply to automatic transmission

<sup>1)</sup> Height including roof fin

<sup>2)</sup> Oil change

<sup>3)</sup> Fuel consumption and CO<sub>2</sub> emissions depend on the selected tyre format

# BMW M235i Coupe.

BMW M235i Coupe			
<b>Body</b>			
No. of doors/seats			2 / 4
Length/width/height <sup>1)</sup> (unladen)	mm		4454 / 1774 / 1408
Wheelbase	mm		2690
Track, front/rear	mm		1516 / 1532
Ground clearance	mm		130
Turning circle	m		10.9
Tank capacity	approx. ltr		52
Cooling system incl. heating	ltr		6.7 (7.2)
Engine oil <sup>2)</sup>	ltr		6.5
Weight, unladen, to DIN/EU	kg		1455 / 1530 (1470 / 1545)
Max. load to DIN	kg		510
Max. permissible weight	kg		1965 (1980)
Max. axle load, front/rear	kg		970 / 1080
Max. trailer load, braked (12%)/unbraked	kg		- / -
Max. roof load/towbar download	kg		75 / -
Luggage comp. capacity	ltr		390
Air resistance	C <sub>d</sub> x A		0.33 x 2.14
<b>Engine</b>			
Config./No. of cyls./valves			in-line / 6 / 4
Engine technology		M TwinPower Turbo technology with twin-scroll turbocharger, High Precision Direct Injection, fully variable valve control (VALVETRONIC) and double-VANOS variable camshaft control	
Effective capacity	cm <sup>3</sup>		2979
Bore/stroke	mm		89.6 / 84.0
Compression ratio	:1		10.2
Fuel grade			min. RON 91
Output	kW/hp		240 / 326
at	rpm		5800 – 6000
Torque	Nm		450
at	rpm		1300 – 4500
<b>Electrical System</b>			
Battery/Installation	Ah/-		80 / luggage comp.
Alternator	AW		210 / 2940
<b>Driving Dynamics and Safety</b>			
Suspension, front		Aluminium double-joint spring strut axle with M-specific elastokinematics	
Suspension, rear		Five-link axle in lightweight steel construction with double elastic bearing	
Brakes, front		Four-piston fixed-calliper disc brakes	
Brakes, rear		Two-piston fixed-calliper disc brakes	
Driving stability systems		Standard: DSC incl. ABS, ASC and DTC (Dynamic Traction Control), CBC (Cornering Brake Control), DBC (Dynamic Brake Control), Dry Braking function, Fading Compensation, Start-Off Assistant	
Safety equipment		Standard: airbags for driver and front passenger, side airbags for driver and front passenger, head airbags front and rear, three-point inertia-reel seatbelts on all seats with belt tensioner and belt force limiter at the front, crash sensors, Tyre Defect Indicator	
Steering		Electric Power Steering (EPS), variable sport steering	
Steering ratio, overall	:1		14.5
Tyres, front/rear		225/40 R18 88Y/ 245/35 R 18 92Y XL	
Rims, front/rear		7.5J x 18 light-alloy/ 8J x 18 light-alloy	

**BMW M235i Coupe**

**Transmission**

Type of gearbox	6-speed manual gearbox (optional: 8-speed automatic with Steptronic)		
Gear ratios	I	:1	4.110 (4.714)
	II	:1	2.315 (3.143)
	III	:1	1.542 (2.106)
	IV	:1	1.179 (1.667)
	V	:1	1.000 (1.285)
	VI	:1	0.846 (1.000)
	VII	:1	– (0.839)
	VIII	:1	– (0.667)
	R	:1	3.727 (3.295)
Final drive		:1	3.077 (3.077)

**Performance**

Performance			
Power-to-weight ratio (DIN)		kg/kW	6.1 (6.1)
Output per litre		kW/ltr	80.6
Acceleration	0–100 km/h	s	5.0 (4.8)
	0–1000 m	s	23.8 (23.7)
in 4th/5th gear	80–120 km/h	s	4.2 / 4.9 (– / –)
Top speed		km/h	250 (250)

**BMW EfficientDynamics**

BMW EfficientDynamics, standard features	Brake Energy Regeneration with recuperation display, Electric Power Steering (EPS), Auto Start Stop function, Optimum Gearshift Indicator (manual gearbox), ECO PRO mode with coasting function, intelligent lightweight construction, optimised aerodynamic attributes, on-demand operation of ancillary units, map-controlled oil pump, detachable a/c compressor, final drive with optimised warm-up behaviour
---	--

**Fuel consumption EU**

Urban	ltr/100 km	10.9 (10.3)
Extra-urban	ltr/100 km	6.4 (5.9)
Combined	ltr/100 km	8.1 (7.6)
CO <sub>2</sub>	g/km	189 (176)
Emission rating		EU6

Specifications apply to ACEA markets; data relevant to homologation applicable in part only to Germany (weight)  
Figures in brackets apply to automatic transmission

<sup>1)</sup> Height including roof fin

<sup>2)</sup> Oil change

# BMW 220d Coupe.

BMW 220d Coupe			
<b>Body</b>			
No. of doors/seats			2 / 4
Length/width/height <sup>1)</sup> (unladen)	mm	4432 / 1774 / 1418	
Wheelbase	mm	2690	
Track, front/rear	mm	1521 / 1556	
Ground clearance	mm	140	
Turning circle	m	10.9	
Tank capacity	approx. ltr	52	
Cooling system incl. heating	ltr	7.0	
Engine oil <sup>2)</sup>	ltr	5.2	
Weight, unladen, to DIN/EU	kg	1375 / 1450 (1390 / 1465)	
Max. load to DIN	kg	510	
Max. permissible weight	kg	1885 (1900)	
Max. axle load, front/rear	kg	900 / 1050	
Max. trailer load, braked (12%)/unbraked	kg	1200 / 710	
Max. roof load/towbar download	kg	75 / 75	
Luggage comp. capacity	ltr	390	
Air resistance	C <sub>d</sub> x A	0.29 x 2.14	
<b>Engine</b>			
Config./No. of cyls./valves			in-line / 4 / 4
Engine technology		BMW TwinPower Turbo technology: turbocharger with variable inlet geometry, common rail direct injection with solenoid injectors, max. injection pressure: 1800 bar	
Effective capacity	cm <sup>3</sup>	1995	
Bore/stroke	mm	90.0 / 84.0	
Compression ratio	:1	16.5	
Fuel grade		diesel	
Output	kW/hp	135 / 184	
at	rpm	4000	
Torque	Nm	380	
at	rpm	1750 – 2750	
<b>Electrical System</b>			
Battery/Installation	Ah/–	90 / luggage comp.	
Alternator	AW	170 / 2380	
<b>Driving Dynamics and Safety</b>			
Suspension, front		Aluminium double-joint spring strut axle	
Suspension, rear		Five-link axle in lightweight steel construction with double elastic bearing	
Brakes, front		Single-piston floating-calliper disc brakes	
Brakes, rear		Single-piston floating-calliper disc brakes	
Driving stability systems		Standard: DSC incl. ABS, ASC and DTC (Dynamic Traction Control), CBC (Cornering Brake Control), DBC (Dynamic Brake Control), Dry Braking function, Fading Compensation, Start-Off Assistant	
Safety equipment		Standard: airbags for driver and front passenger, side airbags for driver and front passenger, head airbags front and rear, three-point inertia-reel seatbelts on all seats with belt tensioner and belt force limiter at the front, crash sensors, Tyre Defect Indicator	
Steering		Electric Power Steering (EPS), optional: Servotronic function, variable sport steering	
Steering ratio, overall	:1	15.0	
Tyres, front/rear		205/55 R16 91W	
Rims, front/rear		7J x 16 light-alloy	

**BMW 220d Coupe**

**Transmission**

Type of gearbox	6-speed manual gearbox (optional: 8-speed automatic with Steptronic)		
Gear ratios	I	:1	4.110 (4.714)
	II	:1	2.248 (3.143)
	III	:1	1.403 (2.106)
	IV	:1	1.000 (1.667)
	V	:1	0.802 (1.285)
	VI	:1	0.659 (1.000)
	VII	:1	– (0.839)
	VIII	:1	– (0.667)
	R	:1	3.727 (3.295)
Final drive		:1	3.231 (2.647)

<b>Performance</b>	kg/kW	10.2 (10.3)
Power-to-weight ratio (DIN)	kW/ltr	67.7
Output per litre	s	7.2 (7.1)
Acceleration 0–100 km/h	s	27.5 (27.4)
0–1000 m	s	5.7 / 7.2 (– / –)
in 4th/5th gear 80–120 km/h	km/h	230 (230)

**BMW EfficientDynamics**

BMW EfficientDynamics, standard features	Brake Energy Regeneration with recuperation display, Electric Power Steering (EPS), Auto Start Stop function, Optimum Gearshift Indicator (manual gearbox), ECO PRO mode with coasting function, intelligent lightweight construction, optimised aerodynamic attributes, on-demand operation of ancillary units, detachable a/c compressor, final drive with optimised warm-up behaviour, tyres with reduced roll resistance		
---	---	--	--

**Fuel consumption EU <sup>3)</sup>**

With standard tyres			
Urban	ltr/100 km	5.6 (4.9)	
Extra-urban	ltr/100 km	3.9 (3.8)	
Combined	ltr/100 km	4.5 (4.2)	
CO <sub>2</sub>	g/km	119 (111)	
with rims 7J x 17 and tyres 205/50 R17, with rims 7,5J x 17 and tyres 225/45 R 17 as well as winter tyres, with rims 7.5J x 17 front, 8J x 17 rear and tyres 225/45 R17 front, 245/40 R17 rear, with rims 7.5J x 18 front, 8J x 18 rear and tyres 225/40 R18 front, 245/35 R18 rear			
Urban	ltr/100 km	5.9 (5.2)	
Extra-urban	ltr/100 km	4.1 (4.0)	
Combined	ltr/100 km	4.8 (4.4)	
CO <sub>2</sub>	g/km	125 (117)	
Emission rating			EU6

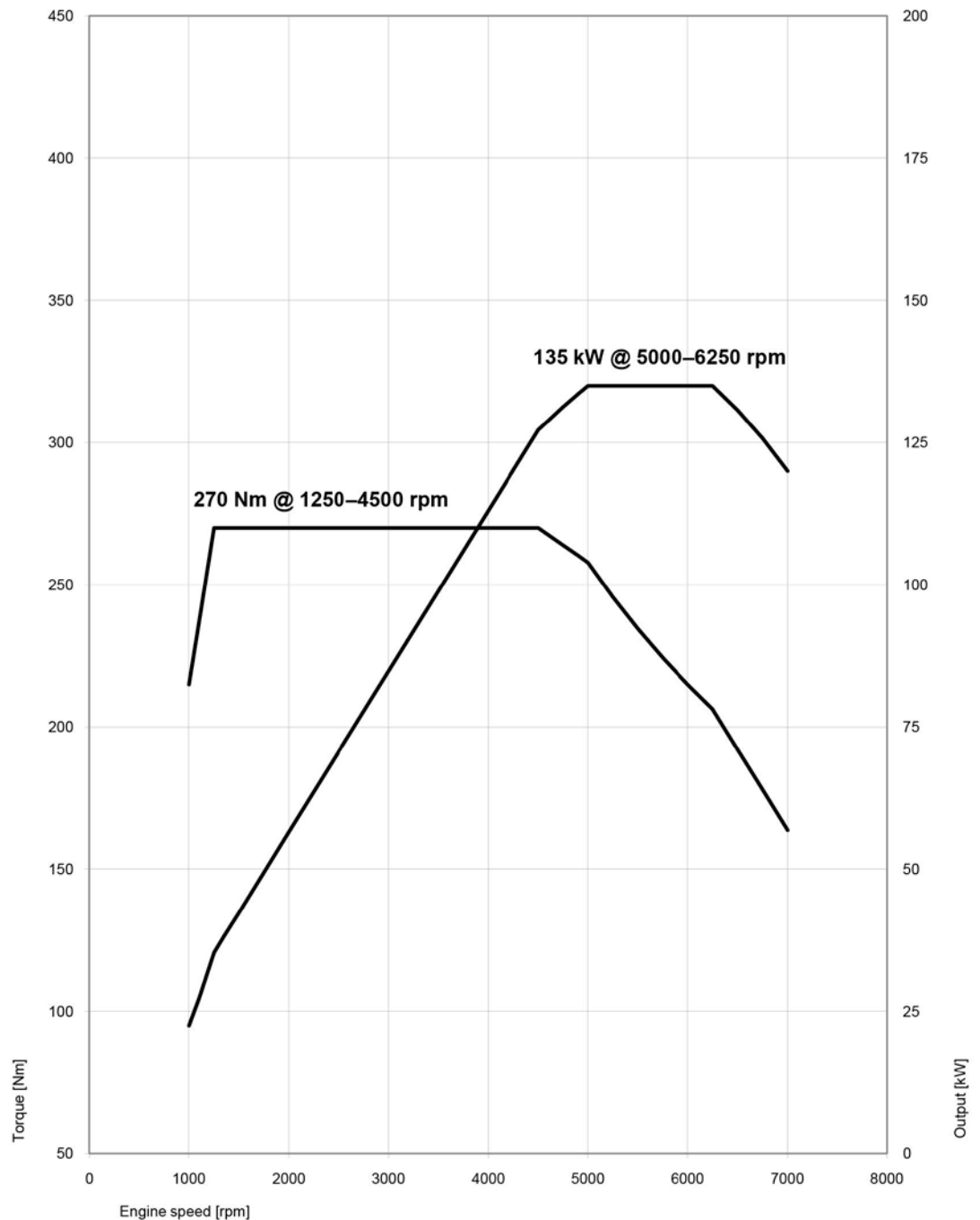
Specifications apply to ACEA markets; data relevant to homologation applicable in part only to Germany (weight)  
Figures in brackets apply to automatic transmission

<sup>1)</sup> Height including roof fin

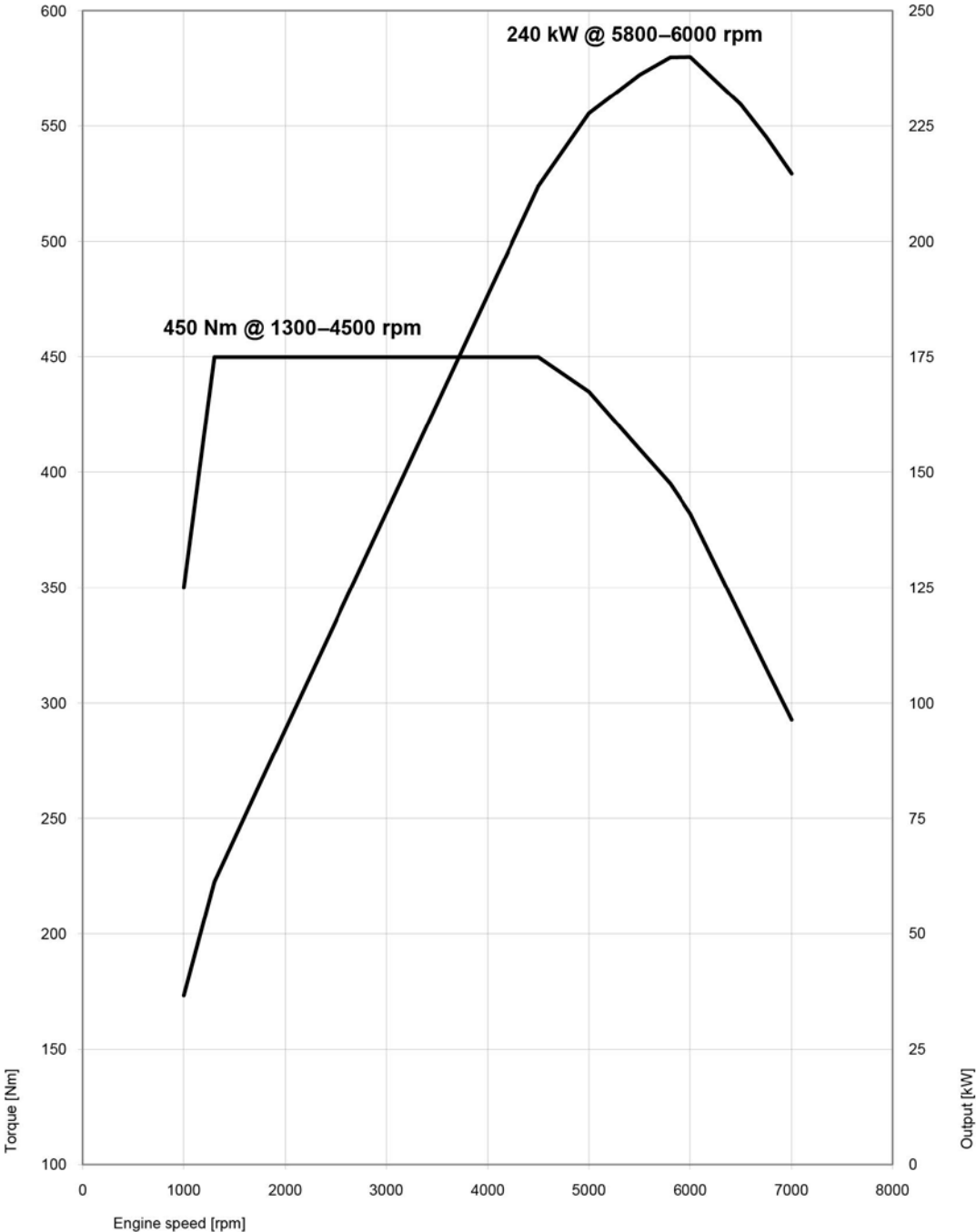
<sup>2)</sup> Oil change

<sup>3)</sup> Fuel consumption and CO<sub>2</sub> emissions depend on the selected tyre format

## 9. Output and torque diagrams. BMW 220i Coupe.

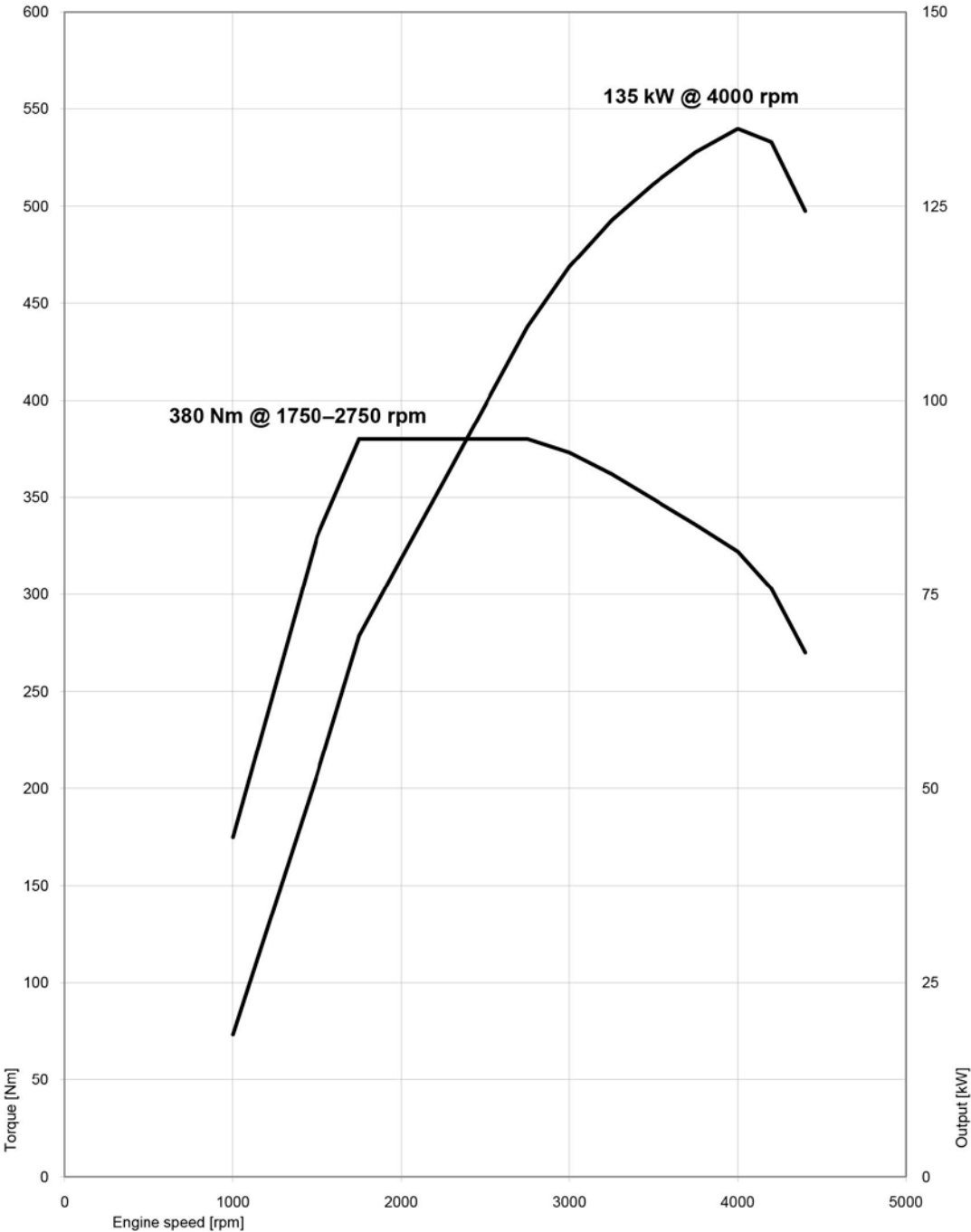


# BMW M235i Coupe.





# BMW 220d Coupe.



## 10. Exterior and interior dimensions.

