

## 8. Specifications.

### BMW 220i Convertible, BMW 228i Convertible.



		BMW 220i Convertible	BMW 228i Convertible
<b>Body</b>			
No. of doors/seats		2 / 4	2 / 4
Length/width/height (unladen)	mm	4432 / 1774 / 1413	4432 / 1774 / 1413
Wheelbase	mm	2690	2690
Track, front/rear	mm	1521 / 1556	1521 / 1556
Ground clearance	mm	140	140
Turning circle	m	10.9	10.9
Fuel tank capacity	approx. ltr	52	52
Cooling system incl. heater	ltr	7.6 (6.9)	7.0 (7.6)
Engine oil <sup>1)</sup>	ltr	5.0	5.0
Weight, unladen, to DINEU	kg	1510 / 1585 (1530 / 1605)	1535 / 1610 (1555 / 1630)
Max. load to DIN	kg	470	440
Max. permissible weight	kg	1980 (2000)	1975 (1995)
Max. axle load, front/rear	kg	885 / 1160	900 / 1130
Max. trailer load, braked (12%)/unbraked	kg	1200 / 750	1200 / 750
Max. roof load/max towbar download	kg	- / 75	- / 75
Luggage comp. capacity	ltr	280 – 335	280 – 335
Air resistance	C <sub>d</sub> x A	0.32 x 2.13	0.33 x 2.13
<b>Power Unit</b>			
Config./No. of cyls./valves		in-line / 4 / 4	in-line / 4 / 4
Engine technology		BMW TwinPower Turbo technology with twin-scroll turbocharging, High Precision Direct Injection, fully variable valve control (VALVETRONIC) and Double-VANOS variable camshaft control	
Effective capacity	cm <sup>3</sup>	1997	1997
Stroke/bore	mm	90.1 / 84.0	90.1 / 84.0
Compression ratio	:1	11.0	10.0
Fuel		min RON 91	min RON 91
Max. output	kW/hp	135 / 184	180 / 245
at	rpm	5000 – 6250	5000 – 6500
Max torque	Nm	270	350
at	rpm	1250 – 4500	1250 – 4800
<b>Electrical System</b>			
Battery/installation	Ah/–	80 / luggage comp.	80 / luggage comp.
Alternator	A/W	170 / 2380	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 combined with head airbags, three-point inertia-reel seatbelts on all seats with belt tensioner and belt force limiter at the front, crash sensors, rollover protection system, Tyre Pressure Indicator	
Steering		Electric Power Steering (EPS), optional: Servotronic function, variable sport steering	
Steering ratio, overall	:1	15.0	15.0
Tyres, front/rear		205/55 R16 91W	205/50 R17 89Y
Rims, front/rear		7J x 16 light-alloy	7J x 17 light-alloy

BMW 220i Convertible			BMW 228i Convertible	
Transmission				
Type of transmission		6-speed manual gearbox (optional: 8-speed automatic with Steptronic)		
Gear ratios	I	:1	4.551 (4.714)	3.683 (4.714)
	II	:1	2.548 (3.143)	2.062 (3.143)
	III	:1	1.659 (2.106)	1.313 (2.106)
	IV	:1	1.230 (1.667)	1.000 (1.667)
	V	:1	1.000 (1.285)	0.809 (1.285)
	VI	:1	0.830 (1.000)	0.677 (1.000)
	VII	:1	– (0.839)	– (0.839)
	VIII	:1	– (0.667)	– (0.667)
	R	:1	4.138 (3.295)	3.348 (3.295)
Final drive		:1	3.154 (3.077)	3.909 (3.077)
Performance				
Power-to-weight ratio (DIN)	kg/kW		11.2 (11.3)	8.5 (8.6)
Output per litre	kW/ltr		67.6	90.1
Acceleration	0–100 km/h	s	7.5 (7.6)	6.1 (6.0)
	0–1000 m	s	<sup>3)</sup>	<sup>3)</sup>
In 5th gear	80–120 km/h	s	9.3 (–)	7.2 (–)
Top speed	km/h		231 (226)	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, ECO PRO mode with coasting function (automatic transmission), 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>2) 3)</sup>				
With standard tyres: rims 7J x 16, tyres 205/55 R16 (BMW 220i Convertible), rims 7J x 17, tyres 205/50 R17 (BMW 228i Convertible)				
Urban	l/100 km		8.9 (8.3)	9.1 (8.8)
Extra-urban	l/100 km		5.1 (5.0)	5.5 (5.3)
Combined	l/100 km		6.5 (6.2)	6.8 (6.6)
CO <sub>2</sub>	g/km		152 (144)	159 (154)
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	l/100 km		9.3 (8.6)	
Extra-urban	l/100 km		5.4 (5.1)	
Combined	l/100 km		6.8 (6.4)	
CO <sub>2</sub>	g/km		159 (149)	
Emission rating			EU6	EU6

Specifications apply to ACEA markets/data relevant to homologation apply in part only to Germany (weight)  
Figures in brackets apply to models with automatic transmission

<sup>1)</sup> Oil change

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

<sup>3)</sup> Data not yet available

# BMW M235i Convertible.

BMW M235i Convertible		
<b>Body</b>		
No. of doors/seats		2 / 4
Length/width/height (unladen)	mm	4454 / 1774 / 1403
Wheelbase	mm	2690
Track, front/rear	mm	1516 / 1534
Ground clearance	mm	130
Turning circle	m	10.9
Fuel tank capacity	approx. ltr	52
Cooling system incl. heater	ltr	6.7 (7.2)
Engine oil <sup>1)</sup>	ltr	6.5
Weight, unladen, to DIN/EU	kg	1600 / 1675 (1620 / 1695)
Max. load to DIN	kg	430
Max. permissible weight	kg	2030 (2050)
Max. axle load, front/rear	kg	960 / 1145
Max. trailer load, braked (12%/unbraked)	kg	- / -
Max. roof load/max towbar download	kg	- / -
Luggage comp. capacity	ltr	280 – 335
Air resistance	C <sub>d</sub> x A	0.35 x 2.13
<b>Power Unit</b>		
Config./No. of cyls./valves		in-line / 6 / 4
Engine technology	M TwinPower Turbo technology with twin-scroll turbocharging, High Precision Direct Injection, fully variable valve control (VALVETRONIC) and Double-VANOS variable camshaft control	
Effective capacity	cm <sup>3</sup>	2979
Stroke/bore	mm	89.6 / 84.0
Compression ratio	:1	10.2
Fuel		min RON 91
Max. output	kW/hp	240 / 326
at	rpm	5800 – 6000
Max torque	Nm	450
at	rpm	1300 – 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 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	Twin-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 combined with head airbags, three-point inertia-reel seatbelts on all seats with belt tensioner and belt force limiter at the front, crash sensors, rollover protection system, Tyre Pressure Indicator	
Steering	Electric Power Steering (EPS), variable sport steering	
Steering ratio, overall	:1	14.4
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 Convertible			
Transmission			
Type of transmission		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			
Power-to-weight ratio (DIN)	kg/kW		6.7 (6.8)
Output per litre	kW/ltr		80.6
Acceleration	0–100 km/h	s	5.2 (5.0)
	0–1000 m	s	2)
In 5th gear	80–120 km/h	s	5.6 (–)
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, ECO PRO mode with coasting function (automatic transmission), 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	l/100 km		11.5 (10.7)
Extra-urban	l/100 km		6.8 (6.2)
Combined	l/100 km		8.5 (7.9)
CO <sub>2</sub>	g/km		199 (184)
Emission rating			EU6

Specifications apply to ACEA markets/data relevant to homologation apply in part only to Germany (weight)  
Figures in brackets apply to models with automatic transmission

<sup>1)</sup> Oil change

<sup>2)</sup> Data not yet available

# BMW 220d Convertible.

BMW 220d Convertible		
<b>Body</b>		
No. of doors/seats		2 / 4
Length/width/height (unladen)	mm	4432 / 1774 / 1413
Wheelbase	mm	2690
Track, front/rear	mm	1521 / 1556
Ground clearance	mm	140
Turning circle	m	10.9
Fuel tank capacity	approx. litr	52
Cooling system incl. heater	litr	7.0
Engine oil <sup>1)</sup>	litr	5.0
Weight, unladen, to DIN/EU	kg	1535 / 1610 (1555 / 1630)
Max. load to DIN	kg	470
Max. permissible weight	kg	2005 (2025)
Max. axle load, front/rear	kg	905 / 1155
Max. trailer load, braked (12%/unbraked)	kg	1500 / 750
Max. roof load/max towbar download	kg	– / 75
Luggage comp. capacity	litr	280 – 335
Air resistance	C <sub>d</sub> x A	0.31 x 2.13
<b>Power Unit</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 valve injectors, max. injection pressure: 2,000 bar	
Effective capacity	cm <sup>3</sup>	1995
Stroke/bore	mm	90.0 / 84.0
Compression ratio	:1	16.5
Fuel		diesel
Max. output	kW/hp	140 / 190
at	rpm	4000
Max torque	Nm	400
at	rpm	1750 – 2500
<b>Electrical System</b>		
Battery/installation	Ah/–	90 / luggage comp.
Alternator	AW	150 / 2100
<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 combined with head airbags, three-point inertia-reel seatbelts on all seats with belt tensioner and belt force limiter at the front, crash sensors, rollover protection system, Tyre Pressure 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 Convertible			
Transmission			
Type of transmission		6-speed manual gearbox (optional: 8-speed automatic with Steptronic)	
Gear ratios	I	:1	4.110 (5.000)
	II	:1	2.248 (3.200)
	III	:1	1.403 (2.143)
	IV	:1	1.000 (1.720)
	V	:1	0.802 (1.314)
	VI	:1	0.659 (1.000)
	VII	:1	– (0.822)
	VIII	:1	– (0.640)
	R	:1	3.727 (3.456)
Final drive		:1	3.231 (2.647)
Performance			
Power-to-weight ratio (DIN)	kg/kW		11.0 (11.1)
Output per litre	kW/ltr		70.2
Acceleration	0–100 km/h	s	7.5 (7.4)
	0–1000 m	s	<sup>3)</sup>
In 4th/5th gear	80–120 km/h	s	7.7 (–)
Top speed	km/h		225 (225)
BMW EfficientDynamics			
BMW EfficientDynamics standard features		Brake Energy Regeneration with recuperation display, Electric Power Steering (EPS), Auto Start Stop function, Optimum Gearshift Indicator, ECO PRO mode with coasting function (automatic transmission), 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>2)</sup>			
With standard tyres			
Urban	l/100 km		5.5 (4.7)
Extra-urban	l/100 km		3.8 (3.7)
Combined	l/100 km		4.4 (4.1)
CO <sub>2</sub>	g/km		116 (108)
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	l/100 km		5.8 (5.2)
Extra-urban	l/100 km		4.1 (4.0)
Combined	l/100 km		4.7 (4.4)
CO <sub>2</sub>	g/km		124 (116)
Emission rating			EU6

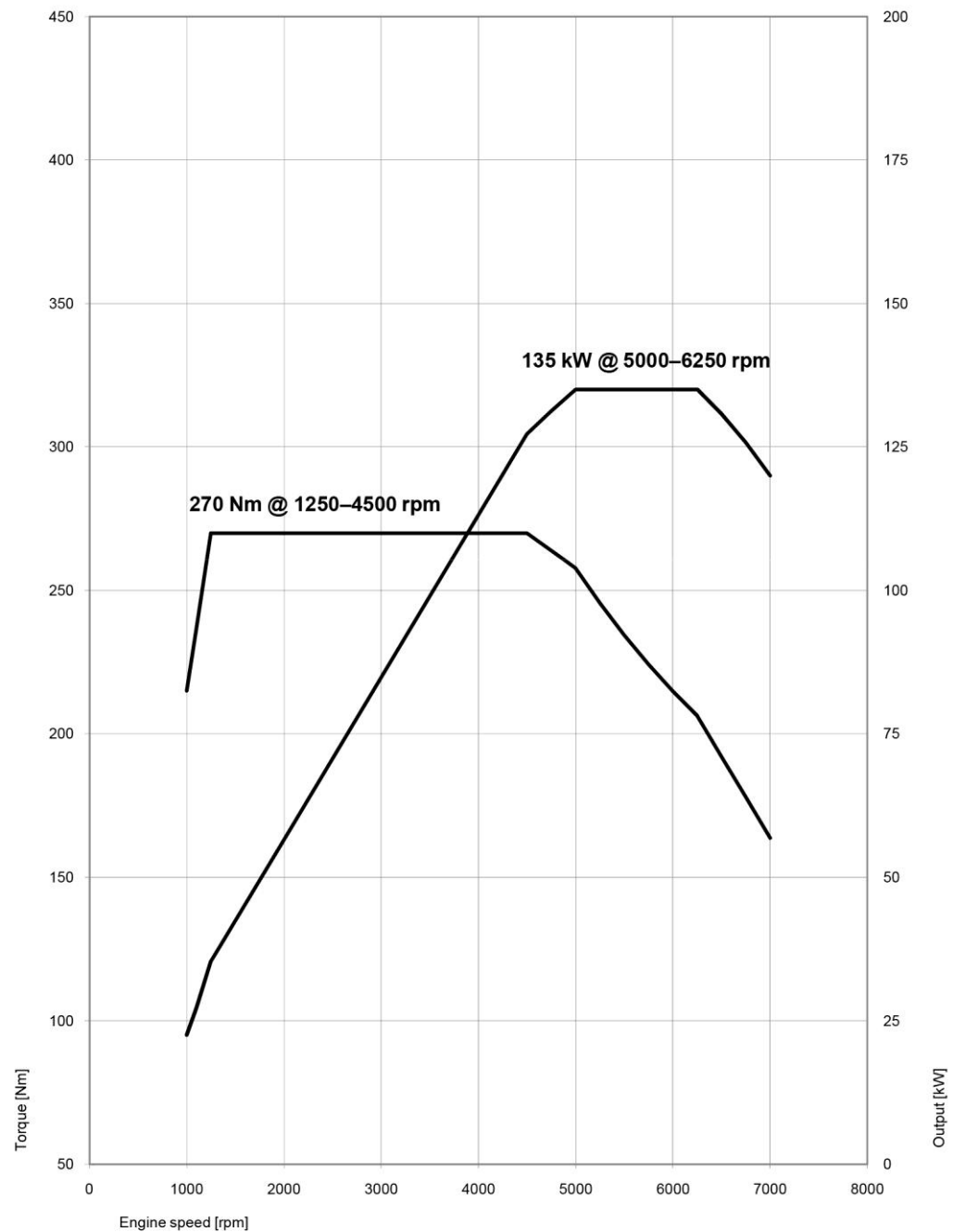
Specifications apply to ACEA markets/data relevant to homologation apply in part only to Germany (weight)  
Figures in brackets apply to models with automatic transmission

<sup>1)</sup> Oil change

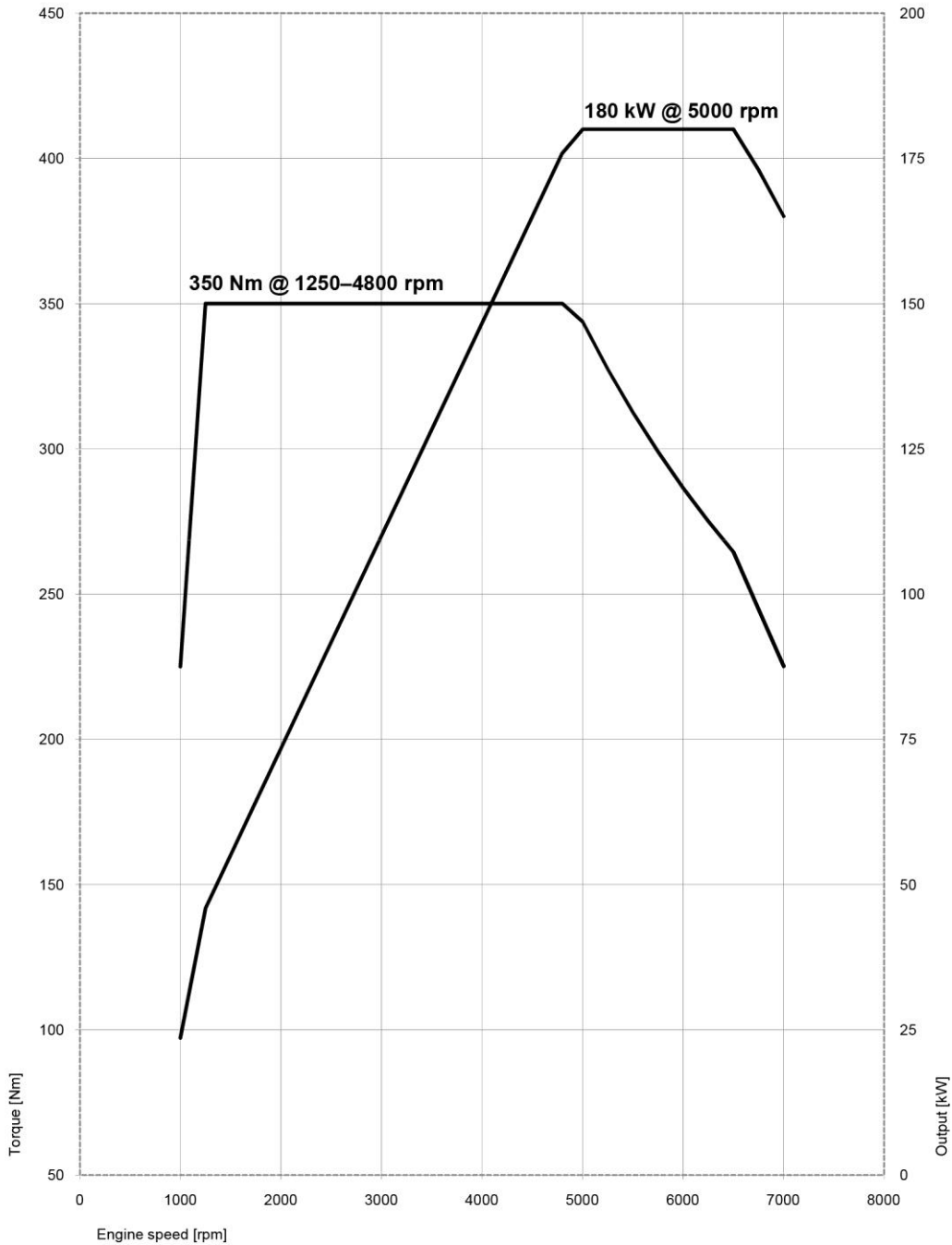
<sup>2)</sup> Fuel consumption and CO<sub>2</sub> emissions depend on the selected tyre format

<sup>3)</sup> Data not yet available

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

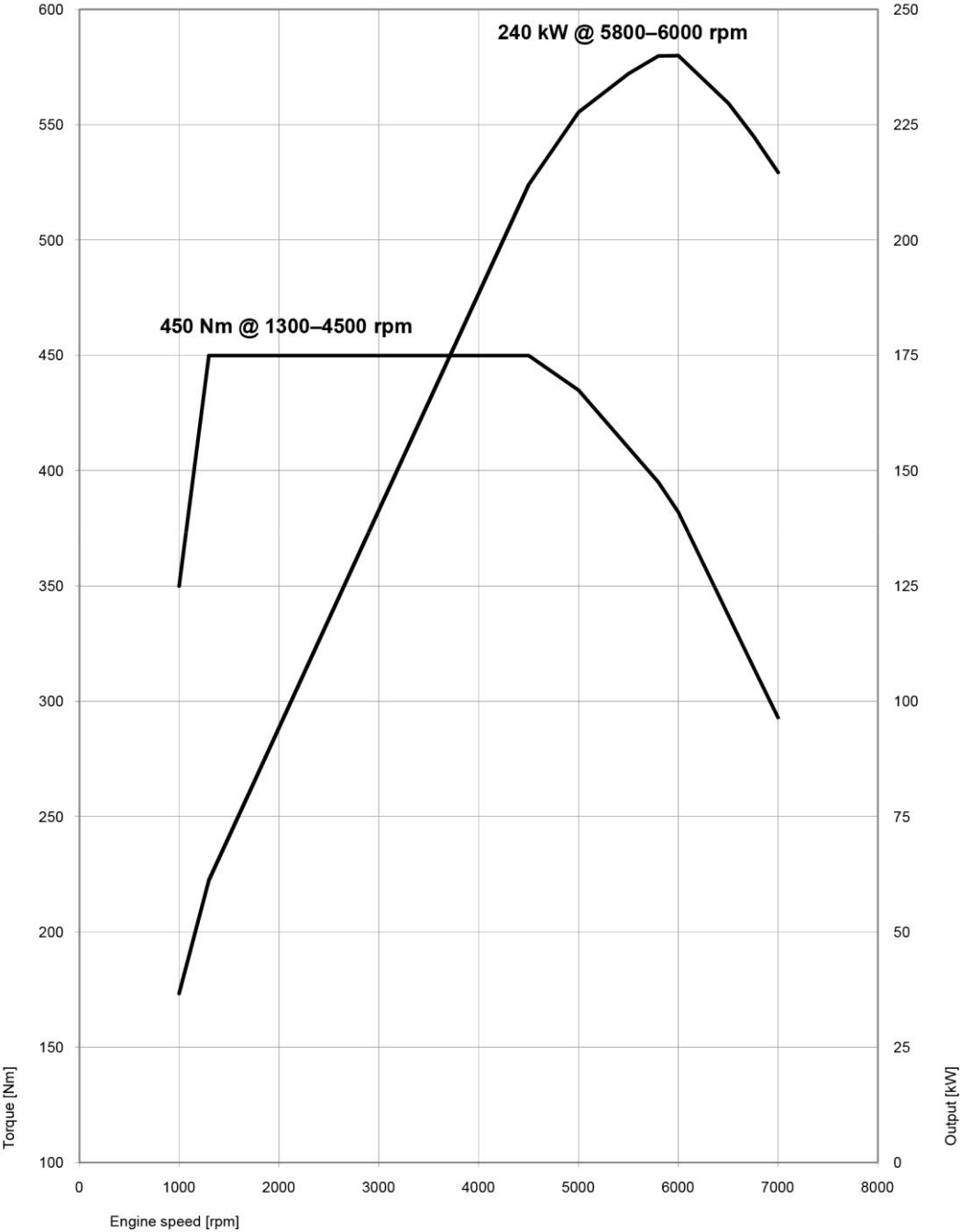


# BMW 228i Convertible.

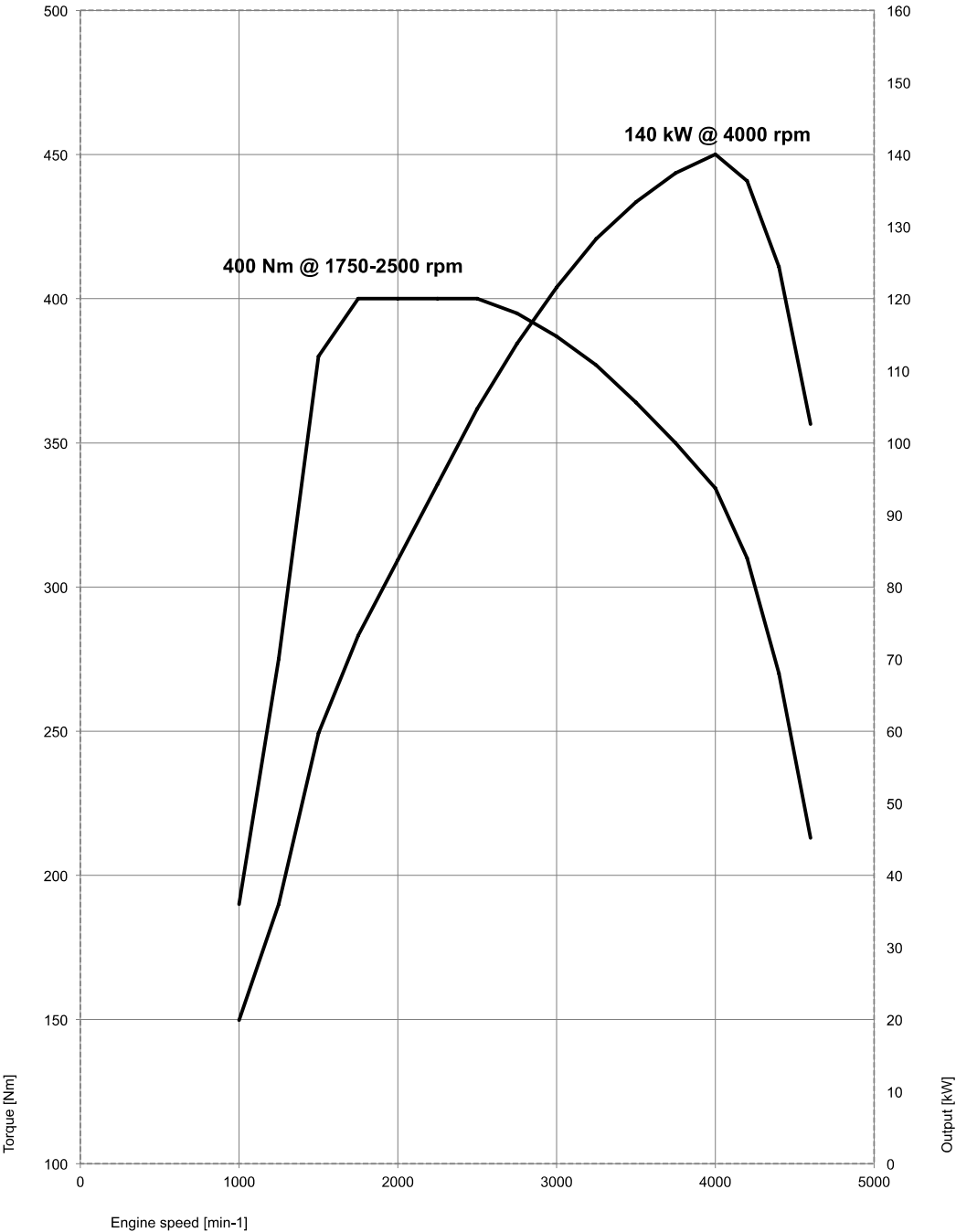




# BMW M235i Convertible.



# BMW 220d Convertible.



## 10. Exterior and interior dimensions.

