

# Specifications.

## The new BMW 8 Series Gran Coupe.

### 840i.



BMW 840i Gran Coupe		
<b>Body</b>		
No of doors/seats		4 / 5
Length/width/height (unladen)	mm	5082 / 1932 / 1407
Wheelbase	mm	3023
Track, front/rear	mm	1627 / 1671
Ground clearance	mm	128
Turning circle	m	12.3
Fuel tank capacity	approx. l	68
Engine oil <sup>1)</sup>	l	6.5
Weight, unladen, to DIN/EU	kg	1800 / 1875
Max load to DIN	kg	635
Max permissible weight	kg	2435
Max axle load, front/rear	kg	1170 / 1360
Max trailer load, braked (12%/unbraked)	kg	- / -
Max roofload/max towbar download	kg	75 / -
Luggage comp capacity	l	440
Air resistance	c <sub>d</sub> x A	0.29 x 2.31
<b>Power Unit</b>		
Config/No of cyls/valves		In-line / 6 / 4
Engine technology		BMW TwinPower Turbo technology: twin-scroll turbocharger, High Precision Injection, VALVETRONIC fully variable valve timing, Double-VANOS variable camshaft timing
Effective capacity	cc	2998
Stroke/bore	mm	94.6 / 82.0
Compression ratio	:1	11.0
Fuel		min RON 91
Max output	kW/hp	250 / 340
at	rpm	5000 – 6500
Max torque	Nm	500
at	rpm	1600 – 4500
<b>Electrical System</b>		
Battery/installation	Ah/-	105 / luggage compartment
<b>Driving Dynamics and Safety</b>		
Suspension, front		Double-wishbone axle in aluminium construction with separate lower track arm and specific elastokinematics
Suspension, rear		Five-link axle in aluminium/steel lightweight construction with dual elastic bearing and specific elastokinematics
Brakes, front		Vented disc brakes, with four-piston fixed callipers
Brakes, rear		Vented disc brakes, with single-piston floating callipers
Driving stability systems		Standard: DSC incl. ABS and DTC (Dynamic Traction Control), CBC (Cornering Brake Control), DBC (Dynamic Brake Control), Dry Braking function, fading compensation, Start-Off Assistant, Adaptive M suspension, electronically controlled rear-axle differential lock; optional: active roll stabilisation
Safety equipment		Standard: airbags for driver and front passenger, side airbags for driver and front passenger, head airbags for front and rear seats, three-point inertia-reel seatbelts on all seats with belt stopper, belt latch tensioner and belt force limiter in the front, crash sensors, tyre pressure indicator
Steering		Electric Power Steering (EPS); optional: Integral Active Steering
Steering ratio, overall	:1	16.3
Tyres, front/rear		245/45 R18 100Y XL/ 275/40 R18 103Y XL
Rims, front/rear		8J x 18 light-alloy/ 9J x 18 light-alloy

**BMW 840i Gran Coupe**

**Transmission**

Type of transmission	Eight-speed Steptronic transmission		
Gear ratios	I	:1	5.250
	II	:1	3.360
	III	:1	2.172
	IV	:1	1.720
	V	:1	1.316
	VI	:1	1.000
	VII	:1	0.822
	VIII	:1	0.640
	R	:1	3.712
Final drive		:1	2.929

**Performance**

Power-to-weight ratio (DIN)	kg/kW	7.2
Output per litre	kW/l	83.4
Acceleration 0–100 km/h	s	5.2
Top speed	km/h	250

**BMW EfficientDynamics**

BMW EfficientDynamics standard features	Brake Energy Regeneration with recuperation display, Electric Power Steering (EPS), Auto Start Stop function, Optimum Shift Indicator, ECO PRO mode with coasting function, BMW EfficientLightweight, optimised aerodynamics, active air flap control, on-demand operation of ancillary units, map-regulated oil pump, rear differential with optimised warm-up behaviour
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**Fuel Consumption ECE**

Urban	l/100 km	9.3 – 8.9
Extra-urban	l/100 km	6.5 – 6.2
Combined	l/100 km	7.5 – 7.2
CO <sub>2</sub>	g/km	170 – 164
Emission rating		Euro 6d-TEMP

Specifications apply to ACEA markets/data relevant to homologation applies in part only to Germany (weight)  
All technical specifications are provisional

<sup>1)</sup> Oil change

The fuel consumption, CO<sub>2</sub> emissions and electric power consumption figures are determined according to the European Regulation (EC) 715/2007 in the version applicable. The figures refer to a vehicle with basic configuration in Germany. The range shown considers the different sizes of the selected wheels/tyres and the selected items of optional equipment, and may vary during configuration.

The values are based on the new WLTP test cycle and are translated back into NEDC-equivalent values in order to ensure comparability between the vehicles. With respect to these vehicles, for vehicle-related taxes or other duties based (at least inter alia) on CO<sub>2</sub> emissions, the CO<sub>2</sub> values may differ from the values stated here (depending on national legislation).

Further information on official fuel consumption figures and specific CO<sub>2</sub> emission values of new passenger cars is included in the following guideline: 'Leitfaden über den Kraftstoffverbrauch, die CO<sub>2</sub>-Emissionen und den Stromverbrauch neuer Personenkraftwagen' (Guide to the fuel economy, CO<sub>2</sub> emissions and electric power consumption of new passenger cars), which can be obtained free of charge from all dealerships, from Deutsche Automobil Treuhand GmbH (DAT), Hellmuth-Hirth-Str. 1, 73760 Ostfildern-Scharnhausen and at <https://www.dat.de/co2/>.

# BMW 8 Series Gran Coupe. 840i xDrive.

<b>BMW 840i xDrive Gran Coupe</b>		
<b>Body</b>		
No of doors/seats		4 / 5
Length/width/height (unladen)	mm	5082 / 1932 / 1407
Wheelbase	mm	3023
Track, front/rear	mm	1627 / 1671
Ground clearance	mm	128
Turning circle	m	12.6
Fuel tank capacity	approx. l	68
Engine oil <sup>1)</sup>	l	6.5
Weight, unladen, to DIN/EU	kg	1855 / 1930
Max load to DIN	kg	625
Max permissible weight	kg	2480
Max axle load, front/rear	kg	1220 / 1355
Max trailer load, braked (12%/unbraked)	kg	- / -
Max roofload/max towbar download	kg	75 / -
Luggage comp capacity	l	440
Air resistance	c <sub>d</sub> x A	0.29 x 2.31
<b>Power Unit</b>		
Config/No of cyls/valves		In-line / 6 / 4
Engine technology		BMW TwinPower Turbo technology: twin-scroll turbocharger, High Precision Injection, VALVETRONIC fully variable valve timing, Double-VANOS variable camshaft timing
Effective capacity	cc	2998
Stroke/bore	mm	94.6 / 82.0
Compression ratio	:1	11.0
Fuel		min RON 91
Max output	kW/hp	250 / 340
at	rpm	5000 – 6500
Max torque	Nm	500
at	rpm	1600 – 4500
<b>Electrical System</b>		
Battery/installation	Ah/-	105 / luggage compartment
<b>Driving Dynamics and Safety</b>		
Suspension, front		Double-wishbone axle in aluminium construction with separate lower track arm and specific elastokinematics
Suspension, rear		Five-link axle in aluminium/steel lightweight construction with dual elastic bearing and specific elastokinematics
Brakes, front		Vented disc brakes, with four-piston fixed callipers
Brakes, rear		Vented disc brakes, with single-piston floating callipers
Driving stability systems		Standard: DSC incl. ABS and DTC (Dynamic Traction Control), CBC (Cornering Brake Control), DBC (Dynamic Brake Control), Dry Braking function, fading compensation, Start-Off Assistant, DSC linked with xDrive all-wheel drive, Adaptive M suspension; optional: electronically controlled rear-axle differential lock, active roll stabilisation
Safety equipment		Standard: airbags for driver and front passenger, side airbags for driver and front passenger, head airbags for front and rear seats, three-point inertia-reel seatbelts on all seats with belt stopper, belt latch tensioner and belt force limiter in the front, crash sensors, tyre pressure indicator
Steering		Electric Power Steering (EPS), Integral Active Steering
Steering ratio, overall	:1	14.9
Tyres, front/rear		245/45 R18 100Y XL/ 275/40 R18 103Y XL
Rims, front/rear		8J x 18 light-alloy/ 9J x 18 light-alloy

**BMW 840i xDrive Gran Coupe**

**Transmission**

Type of transmission	Eight-speed Steptronic transmission		
Gear ratios	I	:1	5.250
	II	:1	3.360
	III	:1	2.172
	IV	:1	1.720
	V	:1	1.316
	VI	:1	1.000
	VII	:1	0.822
	VIII	:1	0.640
	R	:1	3.712
Final drive		:1	2.929

**Performance**

Power-to-weight ratio (DIN)	kg/kW	7.4
Output per litre	kW/l	83.4
Acceleration 0–100 km/h	s	4.9
Top speed	km/h	250

**BMW EfficientDynamics**

BMW EfficientDynamics standard features	Brake Energy Regeneration with recuperation display, Electric Power Steering (EPS), Auto Start Stop function, Optimum Shift Indicator, ECO PRO mode with coasting function, BMW EfficientLightweight, optimised aerodynamics, active air flap control, on-demand operation of ancillary units, map-regulated oil pump, efficiency- and weight-optimised all-wheel drive, rear differential and transfer case with optimised warm-up behaviour, BMW Blue Performance technology
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**Fuel Consumption ECE**

Urban	l/100 km	9.8 – 9.5
Extra-urban	l/100 km	6.7 – 6.3
Combined	l/100 km	7.8 – 7.5
CO <sub>2</sub>	g/km	179 – 171
Emission rating		Euro 6d-TEMP

Specifications apply to ACEA markets/data relevant to homologation applies in part only to Germany (weight)  
All technical specifications are provisional

<sup>1)</sup> Oil change

The fuel consumption, CO<sub>2</sub> emissions and electric power consumption figures are determined according to the European Regulation (EC) 715/2007 in the version applicable. The figures refer to a vehicle with basic configuration in Germany. The range shown considers the different sizes of the selected wheels/tyres and the selected items of optional equipment, and may vary during configuration.

The values are based on the new WLTP test cycle and are translated back into NEDC-equivalent values in order to ensure comparability between the vehicles. With respect to these vehicles, for vehicle-related taxes or other duties based (at least inter alia) on CO<sub>2</sub> emissions, the CO<sub>2</sub> values may differ from the values stated here (depending on national legislation).

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# BMW 8 Series Gran Coupe. M850i xDrive.

<b>BMW M850i xDrive Gran Coupe</b>		
<b>Body</b>		
No of doors/seats		4 / 5
Length/width/height (unladen)	mm	5082 / 1932 / 1407
Wheelbase	mm	3023
Track, front/rear	mm	1627 / 1671
Ground clearance	mm	128
Turning circle	m	12.6
Fuel tank capacity	approx. l	68
Engine oil <sup>1)</sup>	l	10.5
Weight, unladen, to DIN/EU	kg	1995 / 2070
Max load to DIN	kg	605
Max permissible weight	kg	2600
Max axle load, front/rear	kg	1300 / 1390
Max trailer load, braked (12%/unbraked)	kg	- / -
Max roofload/max towbar download	kg	75 / -
Luggage comp capacity	l	440
Air resistance	c <sub>d</sub> x A	0.32 x 2.31
<b>Power Unit</b>		
Config/No of cyls/valves		V / 8 / 4
Engine technology		BMW TwinPower Turbo technology: two twin-scroll turbochargers, High Precision Injection, VALVETRONIC fully variable valve timing, Double-VANOS variable camshaft timing
Effective capacity	cc	4395
Stroke/bore	mm	88.3 / 89.0
Compression ratio	:1	10.5
Fuel		min RON 91
Max output	kW/hp	390 / 530
at	rpm	5500 – 6000
Max torque	Nm	750
at	rpm	1800 – 4600
<b>Electrical System</b>		
Battery/installation	Ah/-	105 / luggage compartment
<b>Driving Dynamics and Safety</b>		
Suspension, front		Double-wishbone axle in aluminium construction with separate lower track arm and specific elastokinematics
Suspension, rear		Five-link axle in aluminium/steel lightweight construction with dual elastic bearing and specific elastokinematics
Brakes, front		Vented disc brakes, with four-piston fixed callipers
Brakes, rear		Vented disc brakes, with single-piston floating callipers
Driving stability systems		Standard: DSC incl. ABS and DTC (Dynamic Traction Control), CBC (Cornering Brake Control), DBC (Dynamic Brake Control), Dry Braking function, fading compensation, Start-Off Assistant, DSC linked with xDrive all-wheel drive, Adaptive M suspension, electronically controlled rear-axle differential lock; optional: active roll stabilisation
Safety equipment		Standard: airbags for driver and front passenger, side airbags for driver and front passenger, head airbags for front and rear seats, three-point inertia-reel seatbelts on all seats with belt stopper, belt latch tensioner and belt force limiter in the front, crash sensors, tyre pressure indicator
Steering		Electric Power Steering (EPS), Integral Active Steering
Steering ratio, overall	:1	14.9
Tyres, front/rear		245/35 R20 95Y XL/ 275/30 R20 97Y XL
Rims, front/rear		8J x 20 light-alloy/ 9J x 20 light-alloy

**BMW M850i xDrive Gran Coupe**

**Transmission**

Type of transmission	Eight-speed Steptronic transmission		
Gear ratios	I	:1	5.500
	II	:1	3.520
	III	:1	2.200
	IV	:1	1.720
	V	:1	1.317
	VI	:1	1.000
	VII	:1	0.823
	VIII	:1	0.640
	R	:1	3.993
Final drive		:1	2.813

**Performance**

Power-to-weight ratio (DIN)	kg/kW	5.1
Output per litre	kW/l	88.7
Acceleration 0–100 km/h	s	3.9
Top speed	km/h	250

**BMW EfficientDynamics**

BMW EfficientDynamics standard features	Brake Energy Regeneration with recuperation display, Electric Power Steering (EPS), Auto Start Stop function, Optimum Shift Indicator, ECO PRO mode with coasting function, BMW EfficientLightweight, optimised aerodynamics, active air flap control, on-demand operation of ancillary units, map-regulated oil pump, efficiency- and weight-optimised all-wheel drive, rear differential and transfer case with optimised warm-up behaviour
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**Fuel Consumption ECE**

Urban	l/100 km	13.9 – 13.7
Extra-urban	l/100 km	7.8 – 7.7
Combined	l/100 km	10.0 – 9.9
CO <sub>2</sub>	g/km	229 – 226
Emission rating		Euro 6d-TEMP

Specifications apply to ACEA markets/data relevant to homologation applies in part only to Germany (weight)  
All technical specifications are provisional

<sup>1)</sup> Oil change

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# BMW 8 Series Gran Coupe. 840d xDrive.

## BMW 840d xDrive Gran Coupe

### Body

No of doors/seats		4 / 5
Length/width/height (unladen)	mm	5082 / 1932 / 1407
Wheelbase	mm	3023
Track, front/rear	mm	1627 / 1671
Ground clearance	mm	128
Turning circle	m	12.6
Fuel tank capacity	approx. l	68
Engine oil <sup>1)</sup>	l	6.5
Weight, unladen, to DIN/EU	kg	1925 / 2000
Max load to DIN	kg	635
Max permissible weight	kg	2560
Max axle load, front/rear	kg	1235 / 1425
Max trailer load, braked (12%/unbraked)	kg	- / -
Max roofload/max towbar download	kg	75 / -
Luggage comp capacity	l	440
Air resistance	c <sub>d</sub> x A	0.29 x 2.31

### Power Unit

Config/No of cyls/valves		In-line / 6 / 4
Engine technology		BMW TwinPower Turbo technology: multi-stage turbocharging, high- and low-pressure turbochargers with variable intake geometry, common-rail direct injection with piezo injectors (max. injection pressure: 2500 bar)
Effective capacity	cc	2993
Stroke/bore	mm	90.0 / 84.0
Compression ratio	:1	16.5
Fuel		Diesel
Max output	kW/hp	235 / 320
at	rpm	4400
Max torque	Nm	680
at	rpm	1750 - 2250

### Electrical System

Battery/installation	Ah/-	105 / luggage compartment
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### Driving Dynamics and Safety

Suspension, front		Double-wishbone axle in aluminium construction with separate lower track arm and specific elastokinematics
Suspension, rear		Five-link axle in aluminium/steel lightweight construction with dual elastic bearing and specific elastokinematics
Brakes, front		Vented disc brakes, with four-piston fixed callipers
Brakes, rear		Vented disc brakes, with single-piston floating callipers
Driving stability systems		Standard: DSC incl. ABS and DTC (Dynamic Traction Control), CBC (Cornering Brake Control), DBC (Dynamic Brake Control), Dry Braking function, fading compensation, Start-Off Assistant, DSC linked with xDrive all-wheel drive, Adaptive M suspension; optional: electronically controlled rear-axle differential lock, active roll stabilisation
Safety equipment		Standard: airbags for driver and front passenger, side airbags for driver and front passenger, head airbags for front and rear seats, three-point inertia-reel seatbelts on all seats with belt stopper, belt latch tensioner and belt force limiter in the front, crash sensors, tyre pressure indicator
Steering		Electric Power Steering (EPS), Integral Active Steering
Steering ratio, overall	:1	14.9
Tyres, front/rear		245/45 R18 100Y XL/ 275/40 R18 103Y XL
Rims, front/rear		8J x 18 light-alloy/ 9J x 18 light-alloy

**BMW 840d xDrive Gran Coupe**

**Transmission**

Type of transmission	Eight-speed Steptronic transmission		
Gear ratios	I	:1	5.500
	II	:1	3.520
	III	:1	2.200
	IV	:1	1.720
	V	:1	1.317
	VI	:1	1.000
	VII	:1	0.823
	VIII	:1	0.640
	R	:1	3.993
Final drive		:1	2.647

**Performance**

Power-to-weight ratio (DIN)	kg/kW	8.2
Output per litre	kW/l	78.5
Acceleration 0–100 km/h	s	5.1
Top speed	km/h	250

**BMW EfficientDynamics**

BMW EfficientDynamics standard features	Brake Energy Regeneration with recuperation display, Electric Power Steering (EPS), Auto Start Stop function, Optimum Shift Indicator, ECO PRO mode with coasting function, BMW EfficientLightweight, optimised aerodynamics, active air flap control, on-demand operation of ancillary units, map-regulated oil pump, efficiency- and weight-optimised all-wheel drive, rear differential and transfer case with optimised warm-up behaviour, BMW Blue Performance technology
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**Fuel Consumption ECE**

Urban	l/100 km	7.4 – 7.3
Extra-urban	l/100 km	5.7 – 5.1
Combined	l/100 km	6.3 – 5.9
CO <sub>2</sub>	g/km	166 – 155
Emission rating		Euro 6d-TEMP

Specifications apply to ACEA markets/data relevant to homologation applies in part only to Germany (weight)  
All technical specifications are provisional

<sup>1)</sup> Oil change

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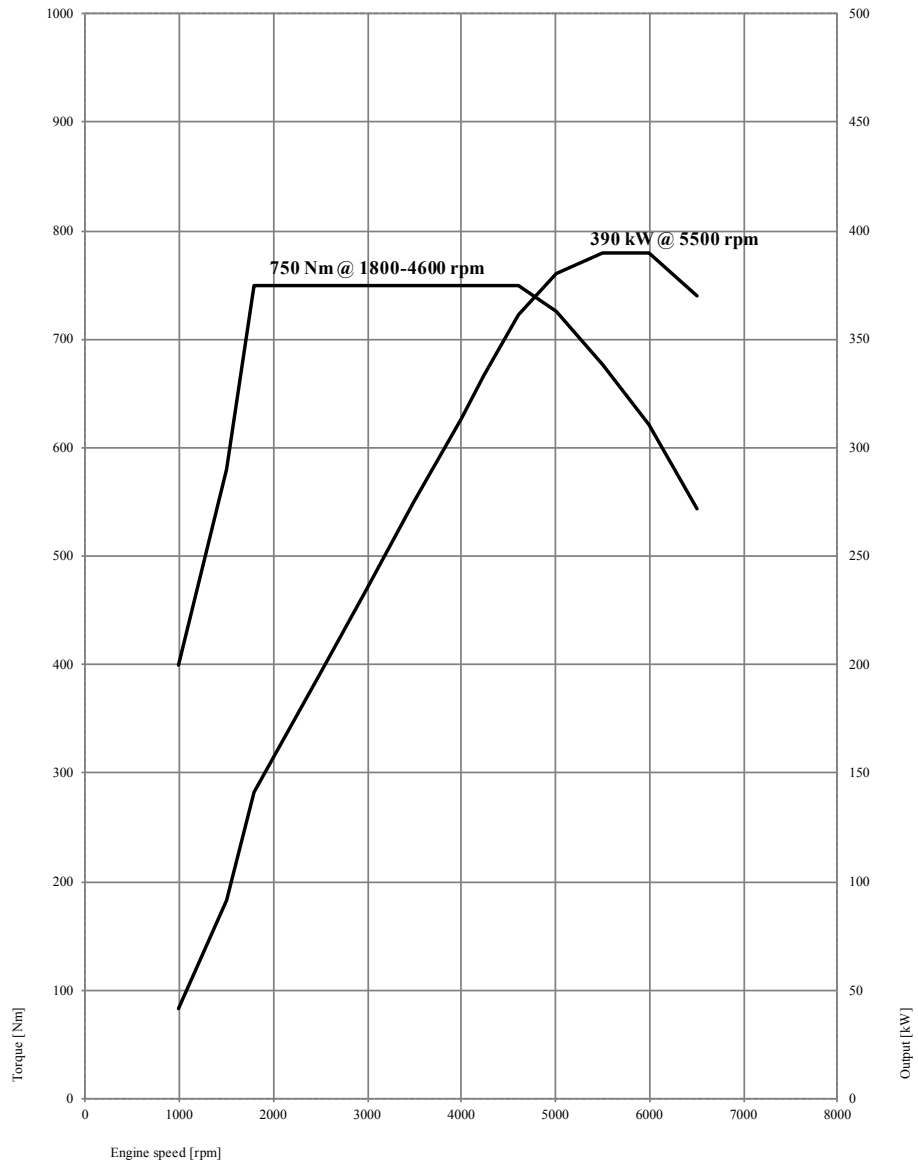
# Output and torque diagrams. BMW 8 Series Gran Coupe. 840i.



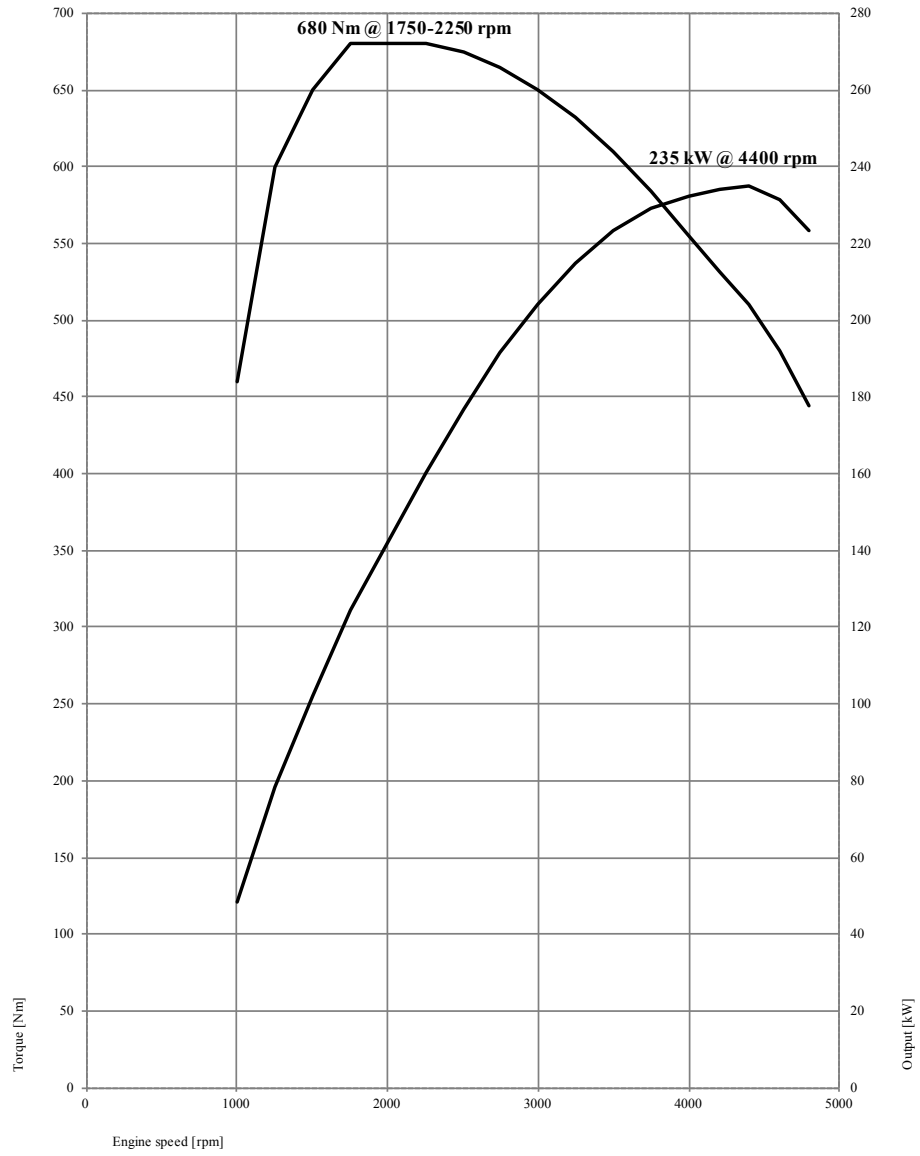
# BMW 8 Series Gran Coupe. 840i xDrive.



# BMW 8 Series Gran Coupe. M850i xDrive.



# BMW 8 Series Gran Coupe. 840d xDrive.



# Exterior and interior dimensions. BMW 8 Series Gran Coupe.

