



9. Specifications.

BMW 640i Gran Coupe.

BMW 650i Gran Coupe.

BMW 640i Gran Coupe		BMW 650i Gran Coupe
Body		
No. of doors/seats	4 / 5	4 / 5
Length/width/height (unladen)	mm 5007 / 1894 / 1392	5007 / 1894 / 1392
Wheelbase	mm 2968	2968
Track, front/rear	mm 1600 / 1665	1600 / 1665
Ground clearance	mm 126	126
Turning circle	m 11,95	11,95
Tank capacity	approx. l 70	70
Cooling system incl heating	l 10.0	10.9
Engine oil ¹⁾	l 6.5	8.0
Weight, unladen, to DINEU	kg 1750 / 1825	1865 / 1940
Max load to DIN	kg 570	570
Max permissible weight	kg 2360	2465
Max axle load, front/rear	kg 1130 / 1295	1210 / 1315
Max trailer load, braked (12%)/unbraked	kg - / -	- / -
Max roof load/towbar download	kg 75 / -	75 / -
Luggage comp capacity	l 460 – 1265	460 – 1265
Air drag	c _x x A 0.29 x 2.24	0.29 x 2.24
Engine		
Configuration/No of cyls/valves	R / 6 / 4	V90 / 8 / 4
Engine technology	BMW TwinPower Turbo technology with twin-scroll turbocharging, High Precision Direct Petrol Injection and fully variable valve control (VALVETRONIC)	BMW TwinPower Turbo technology with two turbochargers, High Precision Direct Petrol Injection and fully variable valve control (VALVETRONIC)
Effective capacity	cm ³ 2979	4395
Bore/stroke	mm 89.6 / 84.0	88.3 / 89.0
Compression ratio	:1 10.2	10.0
Fuel grade	min RON 91	min RON 91
Output	kW/hp 235 / 320	330 / 450
at	min ⁻¹ 5800 – 6000	5500 – 6000
Torque	Nm 450	650
at	min ⁻¹ 1300 – 4500	2000 – 4500
Electrical system		
Battery/Installation	Ah/- 90 / luggage compartment	105 / luggage compartment
Alternator	AW 210 / 2940	210 / 2940
Driving dynamics and safety		
Suspension, front	Double track control arm with separate lower track arm level, aluminium, small steering roll radius, anti-dive	
Suspension, rear	Integral-V multi-arm axle, aluminium, with anti-squat and anti-dive, double acoustic separation	
Brakes, front	Frame-type aluminium single-piston floating-calliper disc brakes	
Diameter	mm 348 x 30 / vented	374 x 36 / vented
Brakes, rear	Aluminium single-piston floating-calliper disc brakes	
Diameter	mm 345 x 24 / vented	345 x 24 / vented
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, Dynamic Damper Control ²⁾ , optional: Adaptive Drive	
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 latch tensioner and belt force limiter integrated in the front seats, crash-activated head restraints at the front, crash sensors, runflat tyres, Tyre Defect Indicator	
Steering	Electric Power Steering (EPS) with Servotronic function; optional: Integral Active Steering	
Steering ratio, overall	:1 17.2	17.2
Tyres, front/rear	225/55 R17 97Y RSC (245/45 R18 96Y RSC ²⁾)	245/45 R18 96Y RSC
Rims, front/rear	8J x17 light-alloy (8J x 18 light-alloy ²⁾)	8J x 18 light-alloy

BMW 640i Gran Coupe			BMW 650i Gran Coupe	
BMW ConnectedDrive				
Convenience		Optional: BMW Assist incl Enquiry Service, remote-control functions, V-Info+ (Traffic Info plus), Real-Time Traffic Information, BMW TeleServices, integration of mobile devices		
Infotainment		Optional: internet access, BMW Online incl Park Info, National Info, Google Local Search, News, Real-Time Weather, BMW Routes, Office functions, Bluetooth Audio Streaming, Online Update Music Tracks, Apps		
Safety		Optional: Adaptive Headlights with cornering lights, variable light distribution and adaptive headlight range control, High Beam Assistant, Park Distance Control, rear-view camera, Surround View incl Top View and Side View, BMW Night Vision with pedestrian recognition, Head-Up Display, Parking Assistant, Active Cruise Control with Stop & Go function, Collision Warning with braking function, Lane Change Warning, Lane Departure Warning, Speed Limit Info incl No Passing Info display, Automatic/Advanced Emergency Call		
Transmission				
Type of gearbox		Eight-speed automatic with Steptronic		
Gear ratios	I	:1	4.714	4.714
	II	:1	3.143	3.143
	III	:1	2.106	2.106
	IV	:1	1.667	1.667
	V	:1	1.285	1.285
	VI	:1	1.000	1.000
	VII	:1	0.839	0.839
	VIII	:1	0.667	0.667
	R	:1	3.295	3.317
Final drive		:1	3.231	2.813
Performance				
Power-to-weight ratio (DIN unladen weight)	kg/kW		7.4	5.7
Output per litre	kW/l		78.9	75.1
Acceleration	0–100 km/h	s	5.4	4.6
	0–1000 m	s	25.0	22.5
in 4th gear	80–120 km/h	s	–	–
Top speed	km/h		250	250
BMW EfficientDynamics				
BMW EfficientDynamics standard features		Brake Energy Regeneration with recuperation display, Auto Start-Stop function, ECO PRO mode, intelligent lightweight design, on-demand operation of ancillary units, active air flap control (BMW 640i), Electric Power Steering (EPS), detachable a/c compressor, tyres with reduced rolling resistance		
Fuel consumption EU ³⁾				
with standard wheels and tyres: rims 8J x 17, tyres 225/55 R17 (SA 2K1) BMW 650i: rims 8J x 18, wheels 245/45 R18 (SA 2D3)				
Urban	l/100km		10.5	4)
Extra-urban	l/100km		6.0	4)
Combined	l/100km		7.7	8.6
CO ₂	g/km		179	199
rims 8J x 18, tyres 245/45 R18 (SA 2D3, BMW 640i: standard in Germany) or winter wheels and tyres (SA 9WR, 931)				
Urban	l/100 km		10,6	–
Extra-urban	l/100 km		6,1	–
Combined	l/100 km		7,8	–
CO ₂	g/km		181	–
rims 8.5J x 19 front, 9J x 19 rear and tyres 245/40 R19 front, 275/35 R19 rear (SA 2DP, 2FB, 2ND, 2MZ, 2WE), rims 8.5J x 20 front, 9J x 20 rear and tyres 245/35 R20 front, 275/30 R20 rear (SA 2H9, 2NM, 2NL)				
Urban	l/100km		10.7	4)
Extra-urban	l/100km		6.2	4)
Combined	l/100km		7.9	8.8
CO ₂	g/km		183	206
Emission rating			EU5	EU5
Insurance group				
3P / FCC / FC			4)	4)

Specifications apply to ACEA markets; data relevant to homologation applicable in part only to Germany (weight)
BMW 650i Gran Coupe: provisional figures

- ¹⁾ Oil change
- ²⁾ Standard in Germany
- ³⁾ Fuel consumption and CO₂ emissions vary according to the wheel and tyre sizes selected
- ⁴⁾ Data not yet available

BMW 650i xDrive Gran Coupe.

BMW 650i xDrive Gran Coupe		
Body		
No. of doors/seats		4 / 5
Length/width/height (unladen)	mm	5007 / 1894 / 1392
Wheelbase	mm	2968
Track, front/rear	mm	1600 / 1665
Ground clearance	mm	126
Turning circle	m	11.95
Tank capacity	approx. l	70
Cooling system incl heating	l	10.9
Engine oil ¹⁾	l	8.0
Weight, unladen, to DINEU	kg	1940 / 2015
Max load to DIN	kg	570
Max permissible weight	kg	2550
Max axle load, front/rear	kg	1260 / 1325
Max trailer load, braked (12%)/unbraked	kg	– / –
Max roof load/towbar download	kg	75 / –
Luggage comp capacity	l	460 – 1265
Air drag	c _x x A	0.31 x 2.24
Engine		
Configuration/No of cyls/valves		V90 / 8 / 4
Engine technology		BMW TwinPower Turbo technology with two turbochargers, High Precision Direct Petrol Injection and fully variable valve control (VALVETRONIC)
Effective capacity	cm ³	4395
Bore/stroke	mm	88.3 / 89.0
Compression ratio	:1	10.0
Fuel grade		min RON 91
Output	kW/hp	330 / 450
at	min ⁻¹	5500 – 6000
Torque	Nm	650
at	min ⁻¹	2000 – 4500
Electrical system		
Battery/Installation	Ah/–	105 / luggage compartment
Alternator	A/W	210 / 2940
Driving dynamics and safety		
Suspension, front		Double track control arm with separate lower track arm level, aluminium, small steering roll radius, anti-dive
Suspension, rear		Integral-V multi-arm axle, aluminium, with steering function, anti-squat and anti-dive, double acoustic separation
Brakes, front		Frame-type aluminium single-piston floating-calliper disc brakes
Diameter	mm	374 x 36 / vented
Brakes, rear		Aluminium single-piston floating-calliper disc brakes
Diameter	mm	345 x 24 / vented
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, link-up with xDrive AWD system in Integrated Chassis Management (ICM), Dynamic Damper Control ²⁾ ; optional: Adaptive Drive
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 latch tensioner and belt force limiter integrated in the front seats, crash-activated head restraints at the front, crash sensors, runflat tyres, Tyre Defect Indicator
Steering		Hydraulic rack-and-pinion steering with Servotronic function
Steering ratio, overall	:1	18.0
Tyres, front/rear		245/45 R18 96Y RSC
Rims, front/rear		8J x 18 light-alloy

BMW 650i xDrive Gran Coupe

BMW ConnectedDrive

Convenience	Optional: BMW Assist incl Enquiry Service, remote-control functions, V-Info+ (Traffic Info plus), Real-Time Traffic Information, BMW TeleServices, integration of mobile devices
Infotainment	Optional: internet access, BMW Online incl Park Info, National Info, Google Local Search, News, Real-Time Weather, BMW Routes, Office functions, Bluetooth Audio Streaming, Online Update Music Tracks, Apps
Safety	Optional: Adaptive Headlights with cornering lights, variable light distribution and adaptive headlight range control, High Beam Assistant, Park Distance Control, rear-view camera, Surround View incl Top View and Side View, BMW Night Vision with pedestrian recognition, Head-Up Display, Parking Assistant, Active Cruise Control with Stop & Go function, Collision Warning with braking function, Lane Change Warning, Lane Departure Warning, Speed Limit Info incl No Passing Info display, Automatic/Advanced Emergency Call

Transmission

Type of gearbox	Eight-speed automatic with Steptronic	
Gear ratios	I	4.714
	II	3.143
	III	2.106
	IV	1.667
	V	1.285
	VI	1.000
	VII	0.839
	VIII	0.667
	R	3.317
Final drive		2.813

Performance

Power-to-weight ratio (DIN unladen weight.)	kg/kW	5.9
Output per litre	kW/l	75.1
Acceleration 0–100 km/h	s	4.5
	0–1000 m	22.9
in 4th gear 80–120 km/h	s	—
Top speed	km/h	250

BMW EfficientDynamics

BMW EfficientDynamics standard features	Brake Energy Regeneration with recuperation display, Auto Start-Stop function, ECO PRO mode, intelligent lightweight design, on-demand operation of ancillary units, flow rate-controlled power-steering pump, detachable a/c compressor, tyres with reduced rolling resistance
--	---

Fuel consumption³⁾

with standard wheels and tyres: rims 8J x 18, tyres 245/45 R18 (SA 2D3)

Urban	l/100km	⁴⁾
Extra-urban	l/100km	⁴⁾
Combined	l/100km	9.2
CO ₂	g/km	215

rims 8.5J x 19 front, 9J x 19 rear and tyres 245/40 R19 front, 275/35 R19 rear

(SA 2DP, 2FB, 2ND, 2MZ, 2WE),

rims 8.5J x 20 front, 9J x 20 rear and tyres 245/35 R20 front, 275/30 R20 rear (SA 2H9, 2NM, 2NL)

Urban	l/100km	⁴⁾
Extra-urban	l/100km	⁴⁾
Combined	l/100km	9.4
CO ₂	g/km	219
Emission rating		EU5

Insurance group

3P / FCC / FC	⁴⁾
---------------	---------------

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

provisional figures

¹⁾ Oil change

²⁾ Standard in Germany

³⁾ Fuel consumption and CO₂ emissions vary according to the wheel and tyre sizes selected

⁴⁾ Data not yet available

BMW 640d Gran Coupe.

BMW 640d Gran Coupe		
Body		
No. of doors/seats		4 / 5
Length/width/height (unladen)	mm	5007 / 1894 / 1392
Wheelbase	mm	2968
Track, front/rear	mm	1600 / 1665
Ground clearance	mm	126
Turning circle	m	11.95
Tank capacity	approx. l	70
Cooling system incl heating	l	8.0
Engine oil ¹⁾	l	7.2
Weight, unladen, to DIN/EU	kg	1790 / 1865
Max load to DIN	kg	570
Max permissible weight	kg	2390
Max axle load, front/rear	kg	1140 / 1305
Max trailer load, braked (12%)/unbraked	kg	- / -
Max roof load/towbar download	kg	75 / -
Luggage comp capacity	l	460 - 1265
Air drag	c _x x A	0.29 x 2.24
Engine		
Configuration/No of cyls/valves		R / 6 / 4
Engine technology		BMW TwinPower Turbo technology with two turbochargers (Variable Twin Turbo) and common-rail direct injection with piezo injectors (max pressure: 2000 bar)
Effective capacity	cm ³	2993
Bore/stroke	mm	90.0 / 84.0
Compression ratio	:1	16.5
Fuel grade		diesel
Output	kW/hp	230 / 313
at	min ⁻¹	4400
Torque	Nm	630
at	min ⁻¹	1500 - 2500
Electrical system		
Battery/Installation	Ah/-	90 / luggage compartment
Alternator	AW	220 / 3080
Driving dynamics and safety		
Suspension, front		Double track control arm with separate lower track arm level, aluminium, small steering roll radius, anti-dive
Suspension, rear		Integral-V multi-arm axle, aluminium, with steering function, anti-squat and anti-dive, double acoustic separation
Brakes, front		Frame-type aluminium single-piston floating-disc brakes
Diameter	mm	348 x 30 / vented
Brakes, rear		Aluminium single-piston floating-disc brakes
Diameter	mm	345 x 24 / vented
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, Dynamic Damper Control ²⁾ ; optional: Adaptive Drive
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 latch tensioner and belt force limiter integrated in the front seats, crash-activated head restraints at the front, crash sensors, runflat tyres, Tyre Defect Indicator
Steering		Electric Power Steering (EPS) with Servotronic function; optional: Integral Active Steering
Steering ratio, overall	:1	17.2
Tyres, front/rear		225/55 R17 97Y RSC (245/45 R18 96Y RSC ²⁾)
Rims, front/rear		8J x 17 LM (8J x 18 LM ²⁾)

BMW 640d Gran Coupe			
BMW ConnectedDrive			
Convenience		Optional: BMW Assist incl Enquiry Service, remote-control functions, V-Info+ (Traffic Info plus), Real-Time Traffic Information, BMW TeleServices, integration of mobile devices	
Infotainment		Optional: internet access, BMW Online incl Park Info, National Info, Google Local Search, News, Real-Time Weather, BMW Routes, Office functions, Bluetooth Audio Streaming, Online Update Music Tracks, Apps	
Safety		Optional: Adaptive Headlights with cornering lights, variable light distribution and adaptive headlight range control, High Beam Assistant, Park Distance Control, rear-view camera, Surround View incl Top View and Side View, BMW Night Vision with pedestrian recognition, Head-Up Display, Parking Assistant, Active Cruise Control with Stop & Go function, Collision Warning with braking function, Lane Change Warning, Lane Departure Warning, Speed Limit Info incl No Passing Info display, Automatic/Advanced Emergency Call	
Transmission			
Type of gearbox		Eight-speed automatic with Steptronic	
Gear ratios		I	4.714
		II	3.143
		III	2.106
		IV	1.667
		V	1.285
		VI	1.000
		VII	0.839
		VIII	0.667
		R	3.317
Final drive			2.813
Performance			
Power-to-weight ratio (DIN unladen weight)		kg/kW	7.8
Output per litre		kW/l	76.8
Acceleration 0–100 km/h		s	5.4
0–1000 m		s	24.7
in 4th gear 80–120 km/h		s	–
Top speed		km/h	250
BMW EfficientDynamics			
BMW EfficientDynamics standard features		Brake Energy Regeneration with recuperation display, Auto Start-Stop function, ECO PRO mode, intelligent lightweight design, on-demand operation of ancillary units, active air flap control, Electric Power Steering (EPS), detachable a/c compressor, tyres with reduced rolling resistance	
Fuel consumption EU ³⁾			
with standard wheels and tyres: rims 8J x 17, tyres 225/55 R17 (SA 2K1)			
Urban		l/100km	6.8
Extra-urban		l/100km	4.8
Combined		l/100km	5.5
CO ₂		g/km	146
rims 8J x 18, wheels 245/45 R18 (SA 2D3, standard in Germany) or winter wheels and tyres (SA 9WR, 931)			
städtisch		l/100 km	6.8
außerstädtisch		l/100 km	4.9
insgesamt		l/100 km	5.6
CO ₂		g/km	148
rims 8.5J x 19 front, 9J x 19 rear and tyres 245/40 R19 front, 275/35 R19 rear (SA 2DP, 2FB, 2ND, 2MZ, 2WE),			
rims 8.5J x 20 front, 9J x 20 rear and tyres 245/35 R20 front, 275/30 R20 rear (SA 2H9, 2NM, 2NL)			
Urban		l/100km	6.9
Extra-urban		l/100km	4.9
Combined		l/100km	5.7
CO ₂		g/km	149
Emission rating			EU5
Insurance group			
3P / FCC / FC			

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

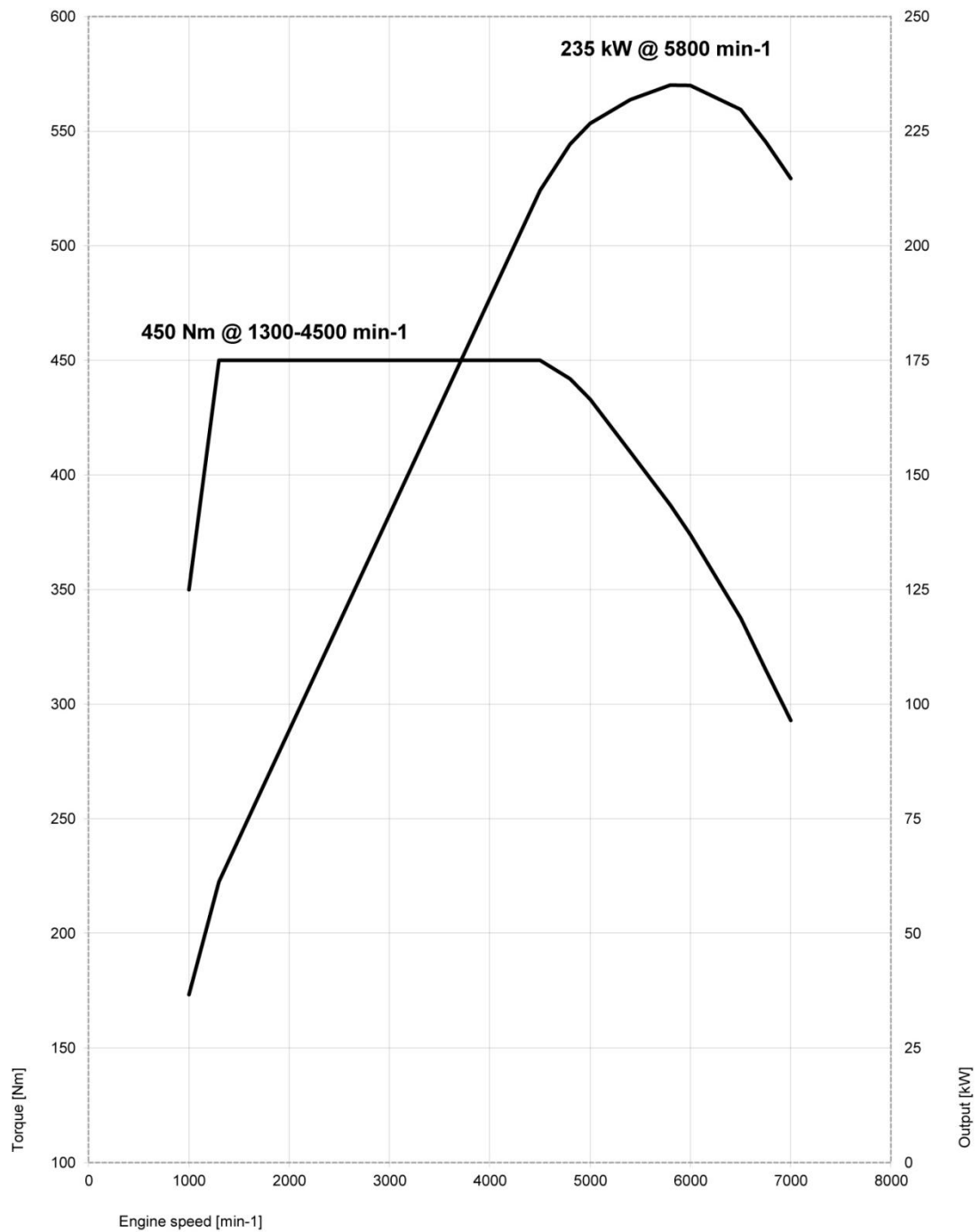
¹⁾ Oil change

²⁾ Standard in Germany

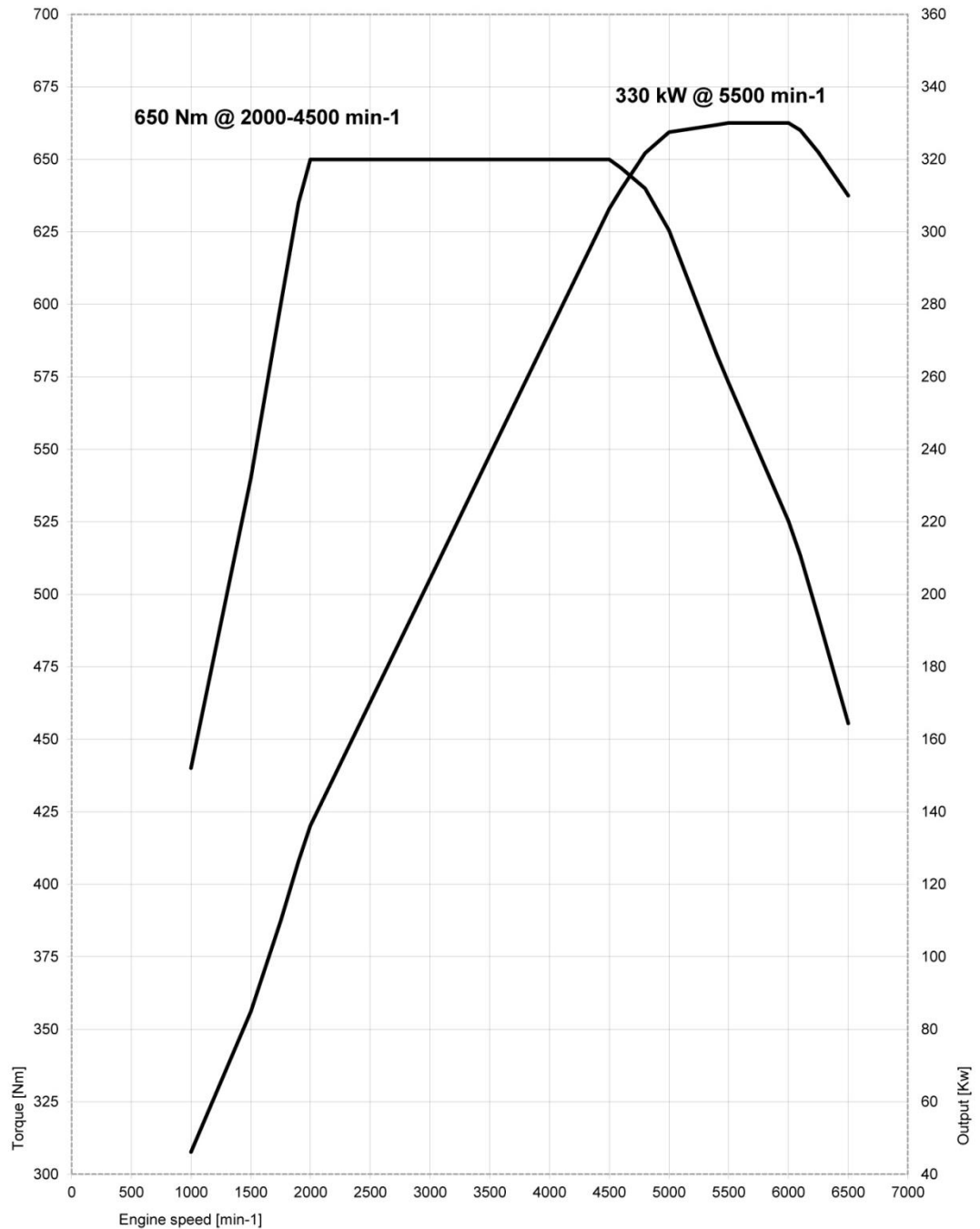
³⁾ Fuel consumption and CO₂ emissions vary according to the wheel and tyre sizes selected

⁴⁾ Data not yet available

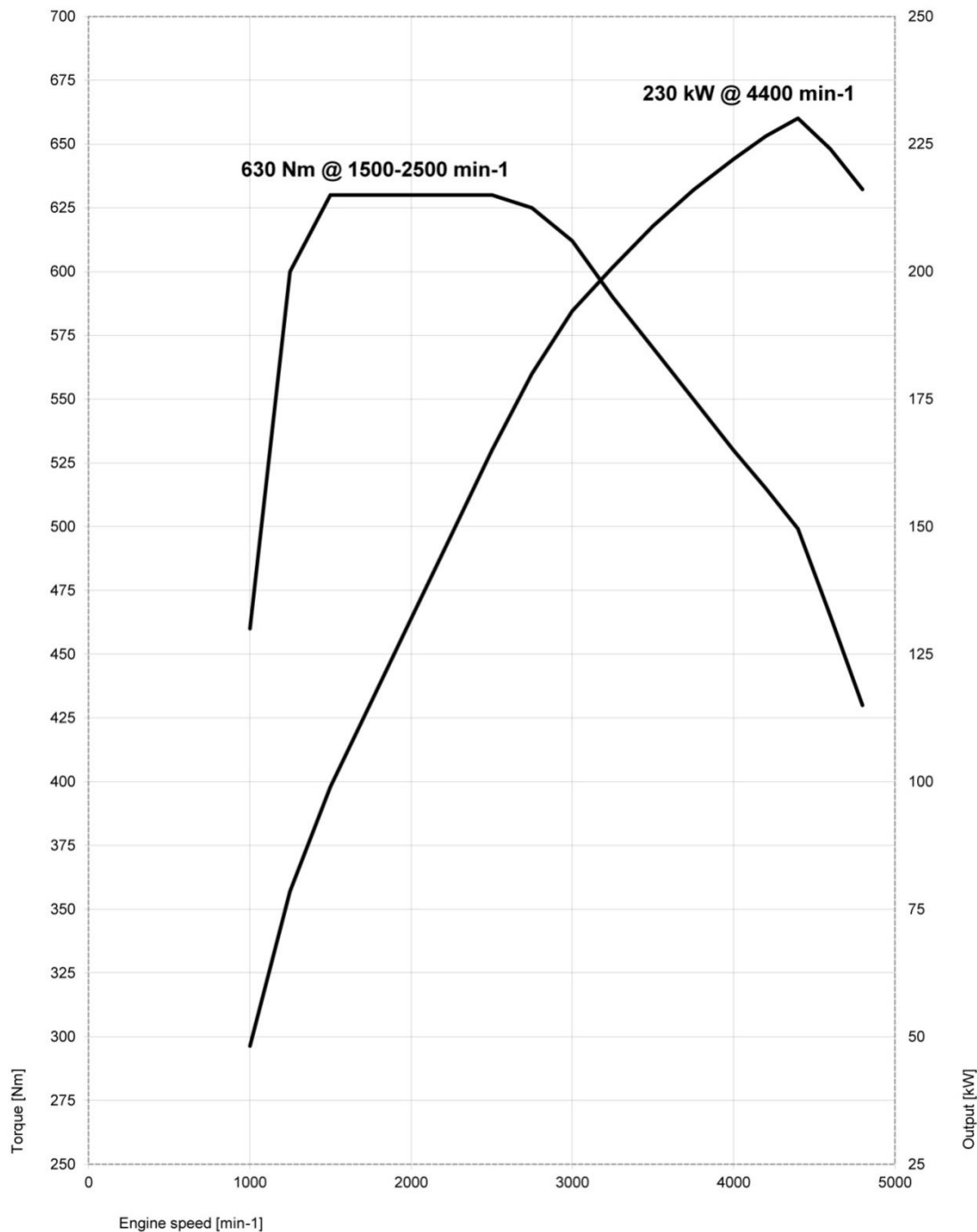
10. Power and torque diagrams. BMW 640i Gran Coupe.



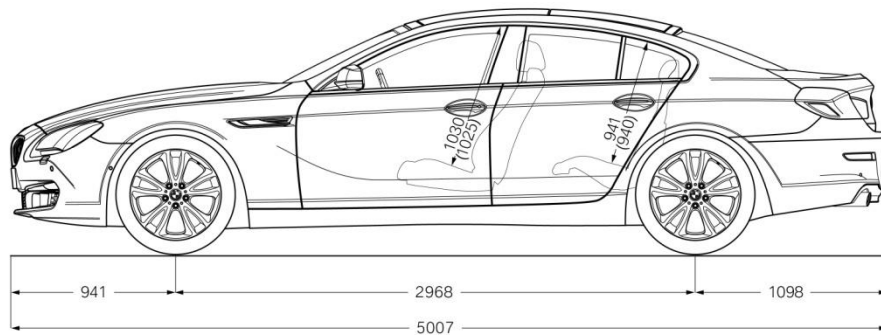
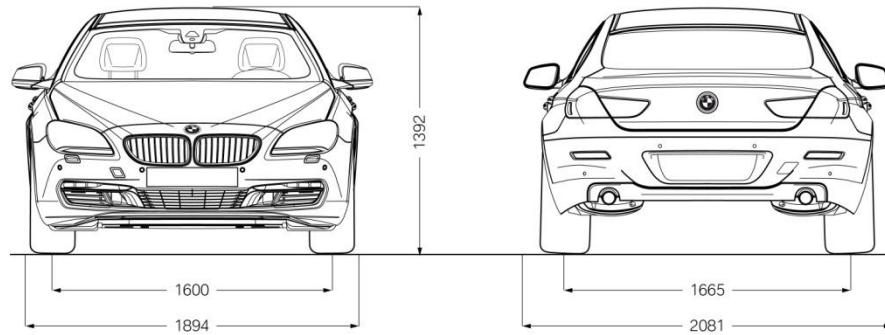
BMW 650i Gran Coupe. BMW 650i xDrive Gran Coupe.



BMW 640d Gran Coupe.



11. Exterior and interior dimensions.



Figures in () refer to glass tilting roof.

