BMW Media Information

5/2012

Valid from 7/2012

Specifications. The new BMW 6 Series Gran Coupé. 640i, 650i



		BMW 640i Gran Coupe	BMW 650i Gran Coupe
Body			
Number of doors/seats		4/5	4/:
Length/Width/Height (unladen)	mm	5007 / 1894 / 1392	5007 / 1894 / 1393
Wheelbase	mm	2968	2968
Track front/rear	mm	1600 / 1665	1600 / 1669
Ground clearance	mm	126	126
Turning circle	m	11.95	11.95
Tank capacity	appr l	70	70
Cooling system incl. heating		10.0	14.4
Engine oil ¹⁾	I	6.5	8.0
Weight, unladen, to DIN/EU	kg	1750 / 1825	1865 / 1940
Max. load to DIN	kg	570	570
Max. perm. weight, overall	kg	2360	2465
Max perm axle load front/rear	kg	1130 / 1295	1210 / 1315
Max perm trailer load (12%) braked/unbraked	kg	-/-	-1-
Perm roof load/trail download	kg	75 / –	75 / -
Luggage capacity	Ī	460 – 1265	460 – 1265
Air resistance	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	BMW TwinPower Turbo
Engine technology		technology with Twin Scroll	technology with two
		turbocharger, High-Precision	turbochargers, High-Precision
	C	lirect injection and fully variable	direct injection and fully variable
		valve control (VALVETRONIC)	valve control (VALVETRONIC
Capacity	CC	2979	4395
Stroke/bore	mm	89.6 / 84.0	88.3 / 89.0
Compression ratio	:1	10.2	10.0
Fuel grade		min ROZ 91	min ROZ 91
Max output	kW/hp	235 / 320	330 / 450
at	rpm	5800 – 6000	5500
Max torque	Nm	450	650
at	rpm	1300 – 4500	2000 – 4500
Electrical system			
Battery/installation	Ah/-	90 / luggage comp	105 / luggage comp
Alternator	A/W	210 / 2940	210 / 2940
Driving dynamics and safety		Nouble treel control or with concrete	lover trook arm lovel aluminium amall
Suspension, front	L	steering roll ra	lower track arm level, aluminium, small dius, anti-dive
Suspension, rear		Integral-V multi-arm axle, alum anti-squat and anti-dive, d	
Brakes, front		Single-piston aluminium floating-	calliper disc brakes, frame design
Brakes, front Diameter	mm	Single-piston aluminium floating-o	
Diameter	mm	348 x 30 / vented	374 x 36 / vented
Diameter Brakes, rear		348 x 30 / vented Single-piston aluminium flo	374 x 36 / vented pating-calliper disc brakes
Diameter Brakes, rear Diameter	mm	348 x 30 / vented Single-piston aluminium flo 345 x 24 / vented	374 x 36 / vented pating-calliper disc brakes 345 x 24 / vented
Diameter		348 x 30 / vented Single-piston aluminium flo 345 x 24 / vented Standard: DSC incl. ABS, ASC Control), CBC (Cornering Brake Con	374 x 36 / vented pating-calliper disc brakes 345 x 24 / vented and DTC (Dynamic Traction trol), DBC (Dynamic Brake Control),
Diameter Brakes, rear Diameter		348 x 30 / vented Single-piston aluminium flu 345 x 24 / vented Standard: DSC incl. ABS, ASC	374 x 36 / vented bating-calliper disc brakes 345 x 24 / vented and DTC (Dynamic Traction trol), DBC (Dynamic Brake Control), spation, Start-Off Assistant; optional:
Diameter Brakes, rear Diameter Driving stability systems		348 x 30 / vented Single-piston aluminium flo 345 x 24 / vented Standard: DSC incl. ABS, ASC Control), CBC (Cornering Brake Con Dry Braking function, Fading Comper Dynamic Damper Cor	374 x 36 / vented pating-calliper disc brakes 345 x 24 / vented and DTC (Dynamic Traction trol), DBC (Dynamic Brake Control), asation, Start-Off Assistant; optional: trol ² , Adaptive Drive
Diameter Brakes, rear Diameter		348 x 30 / vented Single-piston aluminium flo 345 x 24 / vented Standard: DSC incl. ABS, ASC Control), CBC (Cornering Brake Con Dry Braking function, Fading Comper Dynamic Damper Cor Standard: airbags for driver and for driver and front passenger, hea	374 x 36 / vented pating-calliper disc brakes 345 x 24 / vented and DTC (Dynamic Traction trol), DBC (Dynamic Brake Control), assation, Start-Off Assistant; optional: trol ²⁾ , Adaptive Drive I front passenger, side airbags d airbags for front and rear seats,
Diameter Brakes, rear Diameter Driving stability systems		348 x 30 / vented Single-piston aluminium flu 345 x 24 / vented Standard: DSC incl. ABS, ASC Control), CBC (Cornering Brake Con Dry Braking function, Fading Comper Dynamic Damper Cor Standard: airbags for driver and for driver and front passenger, hea three-point inertia-reel seatbe	374 x 36 / vented pating-calliper disc brakes 345 x 24 / vented and DTC (Dynamic Traction trol), DBC (Dynamic Brake Control), ansation, Start-Off Assistant; optional: trol ²⁾ , Adaptive Drive I front passenger, side airbags d airbags for front and rear seats, lts on all seats with belt latch
Diameter Brakes, rear Diameter Driving stability systems		348 x 30 / vented Single-piston aluminium flu 345 x 24 / vented Standard: DSC incl. ABS, ASC Control), CBC (Cornering Brake Con Dry Braking function, Fading Comper Dynamic Damper Cor Standard: airbags for driver and for driver and front passenger, hea three-point inertia-reel seated tensioner and belt force limiter	374 x 36 / vented pating-calliper disc brakes 345 x 24 / vented and DTC (Dynamic Traction trol), DBC (Dynamic Brake Control), sation, Start-Off Assistant; optional: trol ²⁾ , Adaptive Drive I front passenger, side airbags and airbags for front and rear seats, lts on all seats with belt latch integrated in the front seats,
Diameter Brakes, rear Diameter Driving stability systems		348 x 30 / vented Single-piston aluminium flr 345 x 24 / vented Standard: DSC incl. ABS, ASC Control), CBC (Cornering Brake Con Dry Braking function, Fading Comper Dynamic Damper Cor Standard: airbags for driver and for driver and front passenger, hea three-point inertia-reel seatbe tensioner and belt force limitet crash-activated head restraints at th	374 x 36 / vented pating-calliper disc brakes 345 x 24 / vented and DTC (Dynamic Traction trol), DBC (Dynamic Brake Control), asation, Start-Off Assistant; optional: trol ²⁾ , Adaptive Drive I front passenger, side airbags di airbags for front and rear seats, lts on all seats with belt latch integrated in the front seats, e front, crash sensors, runflat tyres,
Diameter Brakes, rear Diameter Driving stability systems Safety features		348 x 30 / vented Single-piston aluminium flo 345 x 24 / vented Standard: DSC incl. ABS, ASC Control), CBC (Cornering Brake Con Dry Braking function, Fading Comper Dynamic Damper Cor Standard: airbags for driver and for driver and front passenger, hea three-point inertia-reel seatbe tensioner and belt force limiter crash-activated head restraints at th Tyre Defect	374 x 36 / vented bating-calliper disc brakes 345 x 24 / vented and DTC (Dynamic Traction trol), DBC (Dynamic Brake Control), asation, Start-Off Assistant; optional: trol ²), Adaptive Drive I front passenger, side airbags d airbags for front and rear seats, lts on all seats with belt latch integrated in the front seats, e front, crash sensors, runflat tyres, t Indicator
Diameter Brakes, rear Diameter Driving stability systems		348 x 30 / vented Single-piston aluminium flr 345 x 24 / vented Standard: DSC incl. ABS, ASC Control), CBC (Cornering Brake Con Dry Braking function, Fading Comper Dynamic Damper Cor Standard: airbags for driver and for driver and front passenger, hea three-point inertia-reel seatbe tensioner and belt force limitet crash-activated head restraints at th	374 x 36 / vented pating-calliper disc brakes 345 x 24 / vented and DTC (Dynamic Traction trol), DBC (Dynamic Brake Control), asation, Start-Off Assistant; optional: trol ²), Adaptive Drive If ront passenger, side airbags d airbags for front and rear seats, lts on all seats with belt latch integrated in the front seats, e front, crash sensors, runflat tyres, t Indicator (EPS) with Servotronic;
Diameter Brakes, rear Diameter Driving stability systems Safety features Steering	mm	348 x 30 / vented Single-piston aluminium flo 345 x 24 / vented Standard: DSC incl. ABS, ASC Control), CBC (Cornering Brake Con Dry Braking function, Fading Comper Dynamic Damper Cor Standard: airbags for driver and for driver and front passenger, hea three-point inertia-reel seatbe tensioner and belt force limiter crash-activated head restraints at th Tyre Defec Electric Power Steering	374 x 36 / vented pating-calliper disc brakes 345 x 24 / vented and DTC (Dynamic Traction trol), DBC (Dynamic Brake Control), asation, Start-Off Assistant; optional: trol ²), Adaptive Drive If ront passenger, side airbags d airbags for front and rear seats, lts on all seats with belt latch integrated in the front seats, e front, crash sensors, runflat tyres, t Indicator (EPS) with Servotronic;
Diameter Brakes, rear Diameter Driving stability systems Safety features Steering Overall steering transmission		348 x 30 / vented Single-piston aluminium flo 345 x 24 / vented Standard: DSC incl. ABS, ASC Control), CBC (Cornering Brake Con Dry Braking function, Fading Comper Dynamic Damper Cor Standard: airbags for driver anc for driver and front passenger, hea three-point inertia-reel seatbe tensioner and belt force limiter crash-activated head restraints at th Tyre Defec Electric Power Steering optional: Integral	374 x 36 / vented bating-calliper disc brakes 345 x 24 / vented and DTC (Dynamic Traction trol), DBC (Dynamic Brake Control), assation, Start-Off Assistant; optional: trol ²), Adaptive Drive If ront passenger, side airbags diarbags for front and rear seats, lts on all seats with belt latch integrated in the front seats, e front, crash sensors, runflat tyres, t Indicator (EPS) with Servotronic; Active Steering
Diameter Brakes, rear Diameter Driving stability systems Safety features Steering	mm	348 x 30 / vented Single-piston aluminium flu 345 x 24 / vented Standard: DSC incl. ABS, ASC Control), CBC (Cornering Brake Con Dry Braking function, Fading Comper Dynamic Damper Corn Standard: airbags for driver and for driver and front passenger, head three-point inertia-reel seatbed tensioner and belt force limited crash-activated head restraints at th Tyre Defect Electric Power Steering optional: Integral	374 x 36 / vented pating-calliper disc brakes 345 x 24 / vented and DTC (Dynamic Traction trol), DBC (Dynamic Brake Control), assation, Start-Off Assistant; optional: trol ² , Adaptive Drive I front passenger, side airbags d airbags for front and rear seats, lts on all seats with belt latch integrated in the front seats, e front, crash sensors, runflat tyres, t Indicator (EPS) with Servotronic; Active Steering

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Specifications. The new BMW 6 Series Gran Coupé. 640i, 650i

			BMW 640i Gran Coupe	BMW 650i Gran Coupe
BMW Connec	ctedDrive			
Comfort		Optional: BMW Assist incl. Enquiry Service, remote-control functions, 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, Realtime Weather, BMW Routes, Office functions, Bluetooth Audio Streaming, Online Update Music Tracks, Apps		
Safety		Park Side Park	al Adaptive Headlights with cornering li adaptive headlight range control, Distance Control, rear-view camera, St View, BMW Night Vision with pedestric king Assistant, Active Cruise Control with on warning with braking function, Lane of Warning, Speed Limit Info, Automatic/	High Beam Assistant, urround View incl. Top View and an recognition, Head-Up Display, th Stop & Go function, rear-end Change Warning, Lane Departure
Transmission	1			
Type	<u> </u>		Eight-speed automatic w	ith Stentronic
Gear ratios	1		4.714	4.714
Gear ratios			3.143	3.143
		:1	2.106	2.106
		:1		
	IV	:1	1.667	1.667 1.285
	V	:1	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-weig	ht ratio (DIN)	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	22.8
In 4th gear	80-120 km/h	S	_	_
Top speed		km/h	250	250
BMW Efficien	ntDynamics			
BMW Efficient			Brake Energy Regeneration with	recuperation display
measures as st	•	Brake Energy Regeneration with recuperation display Auto Start Stop function, ECO PRO mode, intelligent lightweight on-demand operation of ancillary units, air flap control, Electric Po (EPS), detachable a/c compressor, tyres with reduced rolling re		itelligent lightweight construction,
		(El	<u>PS), detachable a/c compressor, tyres v</u>	
Fuel consum	ption EU ³⁾	<u>(El</u>	PS), detachable a/c compressor, tyres v	
	wheels and tyres		PS), detachable a/c compressor, tyres volume a/c compressor a	vith reduced rolling resistance
With standard	wheels and tyres			with reduced rolling resistance 245/45 R18 tyres (option 2D3)
With standard of BMW 640i: 8J Urban	wheels and tyres	5/55 R17 tyres (o _l	otion 2K1), BMW 650i: 8J x 18 wheels,	vith reduced rolling resistance 245/45 R18 tyres (option 2D3) 11,9
With standard v BMW 640i: 8J Urban Extra-urban	wheels and tyres	5/55 R17 tyres (o _l I/100 km I/100 km	otion 2K1), BMW 650i: 8J x 18 wheels, 10.5	vith reduced rolling resistance 245/45 R18 tyres (option 2D3) 11,9 6,6
With standard v BMW 640i: 8J Urban Extra-urban Composite	wheels and tyres	5/55 R17 tyres (o _l //100 km //100 km //100 km	otion 2K1), BMW 650i: 8J x 18 wheels, 10.5 6.0	vith reduced rolling resistance 245/45 R18 tyres (option 2D3) 11,9 6,6 8.6
With standard v BMW 640i: 8J Urban Extra-urban Composite CO ₂ with 8J x 18 wh	wheels and tyres x 17 wheels, 225	5/55 R17 tyres (o _l 1/100 km 1/100 km 1/100 km g/km 8 tyres (option 21	otion 2K1), BMW 650i: 8J x 18 wheels, 10.5 6.0 7.7	vith reduced rolling resistance 245/45 R18 tyres (option 2D3) 11,9 6,6 8.6
With standard v BMW 640i: 8J Urban Extra-urban Composite CO ₂ with 8J x 18 wh	wheels and tyres x 17 wheels, 225 heels, 245/45 R1	5/55 R17 tyres (o _l 1/100 km 1/100 km 1/100 km g/km 8 tyres (option 21	otion 2K1), BMW 650i: 8J x 18 wheels, 10.5 6.0 7.7 179	vith reduced rolling resistance 245/45 R18 tyres (option 2D3) 11,9 6,6 8.6
With standard v BMW 640i: 8J Urban Extra-urban Composite CO ₂ with 8J x 18 wh or with winter t	wheels and tyres x 17 wheels, 225 heels, 245/45 R1	5/55 R17 tyres (o) 1/100 km 1/100 km 1/100 km g/km 8 tyres (option 20, 8, 931)	otion 2K1), BMW 650i: 8J x 18 wheels, 10.5 6.0 7.7 179 D3, BMW 640i: standard in Germany)	vith reduced rolling resistance 245/45 R18 tyres (option 2D3) 11,9 6,6 8.6
With standard of BMW 640i: 8J Urban Extra-urban Composite CO ₂ with 8J x 18 whor with winter to Urban Extra-urban	wheels and tyres x 17 wheels, 225 heels, 245/45 R1	5/55 R17 tyres (o) 1/100 km 1/100 km 1/100 km g/km 8 tyres (option 20, 931) 1/100 km	otion 2K1), BMW 650i: 8J x 18 wheels, 10.5 6.0 7.7 179 D3, BMW 640i: standard in Germany)	vith reduced rolling resistance 245/45 R18 tyres (option 2D3) 11,9 6,6 8.6
With standard of BMW 640i: 8J Urban Extra-urban Composite CO ₂ with 8J x 18 whor with winter to Urban Extra-urban Composite	wheels and tyres x 17 wheels, 225 heels, 245/45 R1	5/55 R17 tyres (o) 1/100 km	otion 2K1), BMW 650i: 8J x 18 wheels, 10.5 6.0 7.7 179 D3, BMW 640i: standard in Germany) 10.6 6.1	245/45 R18 tyres (option 2D3) 11,9 6,6 8.6
With standard of BMW 640i: 8J Urban Extra-urban Composite CO ₂ with 8J x 18 whor with winter to Urban Extra-urban Composite CO ₂ With 8.5J x 19 (option 2DP, 2F option 2D	wheels and tyres x 17 wheels, 225 meels, 245/45 R1 yres (option 9WF) wheels at front, \$ FB, 2ND, 2MZ, 2	5/55 R17 tyres (o) 1/100 km 1/100 km 1/100 km g/km 8 tyres (option 20, 931) 1/100 km 2/100 km 3/100 km 4/100 km 9/100 km	otion 2K1), BMW 650i: 8J x 18 wheels, 10.5 6.0 7.7 179 D3, BMW 640i: standard in Germany) 10.6 6.1 7.8	245/45 R18 tyres (option 2D3) 11,9 6,6 8.6 199
With standard of BMW 640i: 8J Urban Extra-urban Composite CO ₂ with 8J x 18 whor with winter to Urban Extra-urban Composite CO ₂ With 8.5J x 19 (option 2DP, 2F option 2D	wheels and tyres x 17 wheels, 225 meels, 245/45 R1 yres (option 9WF) wheels at front, 5 FB, 2ND, 2MZ, 2 wheels at the fro	5/55 R17 tyres (o) 1/100 km 1/100 km 1/100 km g/km 8 tyres (option 20, 931) 1/100 km 2/100 km 3/100 km 4/100 km 9/100 km	10.5 6.0 7.7 179 03, BMW 640i: standard in Germany) 10.6 6.1 7.8 181 r and 245/40 R19 tyres at front, 275/35	245/45 R18 tyres (option 2D3) 11,9 6,6 8.6 199
With standard of BMW 640i: 8J Urban Extra-urban Composite CO ₂ with 8J x 18 whor with winter to Urban Extra-urban Composite CO ₂ With 8.5J x 19 (option 2DP, 2F With 8.5J x 20	wheels and tyres x 17 wheels, 225 meels, 245/45 R1 yres (option 9WF) wheels at front, 5 FB, 2ND, 2MZ, 2 wheels at the fro	5/55 R17 tyres (o) 1/100 km 1/100 km 1/100 km g/km 8 tyres (option 20, 931) 1/100 km 2/100 km 3/100 km 4/100 km 9/100 km	10.5 6.0 7.7 179 03, BMW 640i: standard in Germany) 10.6 6.1 7.8 181 r and 245/40 R19 tyres at front, 275/35	245/45 R18 tyres (option 2D3) 11,9 6,6 8.6 199
With standard of BMW 640i: 8J Urban Extra-urban Composite CO ₂ with 8J x 18 whor with winter to Urban Extra-urban Composite CO ₂ With 8.5J x 19 (option 2DP, 2F With 8.5J x 20 (option 2H9, 2F)	wheels and tyres x 17 wheels, 225 meels, 245/45 R1 yres (option 9WF) wheels at front, 5 FB, 2ND, 2MZ, 2 wheels at the fro	5/55 R17 tyres (o) 1/100 km 1/100 km 1/100 km 1/100 km 8 tyres (option 21, 931) 1/100 km	10.5 6.0 7.7 179 03, BMW 640i: standard in Germany) 10.6 6.1 7.8 181 r and 245/40 R19 tyres at front, 275/35 rear and 245/35 R20 tyres at the front,	245/45 R18 tyres (option 2D3) 11,9 6,6 8.6 199
With standard of BMW 640i: 8J Urban Extra-urban Composite CO2 with 8J x 18 whor with winter to Urban Extra-urban Composite CO2 With 8.5J x 19 (option 2DP, 2F With 8.5J x 20 (option 2H9, 2F Urban Extra-urban Composite CO2	wheels and tyres x 17 wheels, 225 meels, 245/45 R1 yres (option 9WF) wheels at front, 5 FB, 2ND, 2MZ, 2 wheels at the fro	5/55 R17 tyres (o) 1/100 km 1/100 km 1/100 km 9/km 8 tyres (option 20, 331) 1/100 km 1/100 km 1/100 km 1/100 km 9/km 9J x 19 at the rea WE), ont, 9J x 20 at the	10.5 6.0 7.7 179 03, BMW 640i: standard in Germany) 10.6 6.1 7.8 181 r and 245/40 R19 tyres at front, 275/35 rear and 245/35 R20 tyres at the front,	245/45 R18 tyres (option 2D3) 11,9 6,6 8.6 199
With standard of BMW 640i: 8J Urban Extra-urban Composite CO2 with 8J x 18 whor with winter to Urban Extra-urban Composite CO2 With 8.5J x 19 (option 2DP, 2F With 8.5J x 20 (option 2H9, 2F Urban Extra-urban Extra-urban	wheels and tyres x 17 wheels, 225 meels, 245/45 R1 yres (option 9WF) wheels at front, 5 FB, 2ND, 2MZ, 2 wheels at the fro	5/55 R17 tyres (o) 1/100 km 1/100 km 1/100 km 1/100 km 1/100 km 8 tyres (option 2E R, 931) 1/100 km 1/100 km 1/100 km 1/100 km 9J x 19 at the rea WE), ont, 9J x 20 at the 1/100 km 1/100 km	10.5 6.0 7.7 179 03, BMW 640i: standard in Germany) 10.6 6.1 7.8 181 r and 245/40 R19 tyres at front, 275/35 rear and 245/35 R20 tyres at the front, 10.7 6.2	245/45 R18 tyres (option 2D3) 11,9 6,6 8.6 199

Technical data valid for ACEA markets/part of data relevant to homologation only apply to Germany (weight)

 $^{^{1)}}$ Oil change quantity $^{2)}$ Standard in Germany $^{3)}$ Fuel consumption and CO_2 emissions depend on the selected tyre format