**BMW** Media Information

2/2012

Valid from 3/2012

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



BMW 650i Coupe

		Bivivv 640i Coupe	Bivivi 630i Coupe	
Body				
Number of doors/seats		2/4	2/4	
Length/Width/Height (unladen)	mm	4894 / 1894 / 1369	4894 / 1894 / 1369	
Wheelbase	mm	2855	2855	
Track front/rear		1600 / 1657	1600 / 1657	
Ground clearance	mm	124	124	
	mm	11.7	11.7	
Turning circle Tank capacity	m	70	70	
Cooling system incl. heating	appr l	10.2	14.6	
Engine oil <sup>1)</sup>	<u>'</u>	6.5	8.5	
Weight, unladen, to DIN/EU		1660 / 1735	1770 / 1845	
Max. load to DIN	kg kg	450	450	
Max. perm. weight, overall		2180	2280	
Max perm axle load front/rear	kg	1090 / 1180	1165 / 1220	
	kg	-/-	-/-	
Max perm trailer load (12%) braked/unbraked	kg	_,_	-1-	
Perm roof load/trail download	kg	75/-	75/-	
	Ny I	460	460	
Luggage capacity Air resistance	cd x A	0.30 x 2.23	0.31 x 2.23	
All resistance	CUXA	0.50 x 2.25	0.51 \ 2.25	
Engine				
Configuration/No. of cyls. /valves		R/6/4	V90/8/4	
Engine technology		BMW TwinPower Turbo with	BMW TwinPower Turbo	
		Twin-Scroll turbocharger,	with two turbochargers	
		direct injection and fully variable	and direct injection	
		valve control (VALVETRONIC)	1005	
Capacity	CC	2979	4395	
Stroke/bore	mm	89.6 / 84.0	88.3 / 89.0	
Compression ratio	:1	10.2	10.0	
Fuel grade		At least RON 91	At least RON 91	
Max output	kW/hp	235 / 320	300 / 407	
<u>at</u>	rpm	5800 – 6000	5500 – 6400	
Max torque	Nm	450	600	
<u>at</u>	rpm	1300 – 4500	1750 – 4500	
Electrical system				
Battery/installation	Ah/-	90 / luggage comp	105 / luggage comp	
Alternator	A/W	210/2940	220 / 3080	
Driving dynamics and safety				
Suspension, front			h separate lower track arm level,	
			ering 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			ninium floating-calliper	
			n frame structure	
Diameter	mm	348 x 30 / vented	374 x 36 / vented	
Brakes, rear		<u> </u>	floating-calliper disc brakes	
Diameter	mm	345 x 24 / vented	345 x 24 / vented	
Driving stability systems			SC and DTC (Dynamic Traction Brake Control), DBC (Dynamic	
			unction, Fading Compensation,	
			optional: Adaptive Drive	
Safety features		<u> </u>	nd front passenger, side airbags	
Guiety leatures			ead 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,		
			ints at the front, crash sensors,	
Ctaorina			re Defect Indicator q (EPS) with Servotronic;	
Steering			g (EPS) with Servotronic; al Active Steering	
Overall steering transmission	:1	17.2	17.2	
Tyres front/rear	.1	225/55 R17 97Y RSC	245/45 R18 96Y RSC	
Wheels front/rear		8J x 17 LM	8J x 18 LM	
vviiceis il Olivieal		OU X 17 LIVI	00 x 10 LIVI	

BMW 640i Coupe

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BMW Connect			BMW 640i Coupe	BMW 650i Coupe			
DIVIVY CONNECT	todDrivo						
Comfort	leublive		Optional: BMW Assist incl. Enquiry Se	ervice, remote-control			
30			functions, Real-Time Traffic	Information,			
			BMW TeleServices, integration o				
Infotainment		Optional: Internet access, BMW Online incl. Park Info, National Info, Google Local Search, News, Realtime Weather,					
			BMW Routes, Office functions, Blueto				
		Online Update Music Tracks, Apps					
Safety			Optional: Adaptive Headlights with cor				
		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 Displ				
			Active Cruise Control including rear-end col function, Lane Change Warning, Lane				
			Speed Limit Info, Automatic/Advanc				
			,				
Transmission			Fight around outsmotic with	Ctantrania			
Type	1	.1	Eight-speed automatic with 4,714	4.714			
Gear ratios	<u> </u>	:1 :1	3.143	3.143			
	<u>"</u> 	: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	3.077			
Performance							
Power-to-weigh	t ratio	kg/kW	7.1	5.9			
Output per litre	0.1001//	kW/ltr	78.9 5.3	68.3 			
Acceleration	0–100 km/h 0–1000 m	S	24.8	23.2			
In 4th gear	80–1000 m 80–120 km/h	S S	24.0	20.2			
Top speed	00-120 KITI/IT	km/h	250	250			
<b>BMW Efficient</b>	:Dynamics						
BMW EfficientD	•		Brake Energy Regeneration with recuperation				
measures as sta	indard		function (BMW 640i), ECO PRO mode (BMW construction, on-demand operation of anc				
			(BMW 640i), Electric Power Steering (EPS),				
			tyres with reduced rolling r	resistance			
	=2)						
Fuel consump With standard w							
		5/55 R17 tvr	es (SA 2K1), BMW 650i: 8J x 18 wheels, 245/4	45 R18 tyres (SA 2SR)			
Urban		l/100km	10.3	15.4			
Extra-urban		l/100km	6.0	7.7			
Composite		l/100km	7.6	10.5			
		g/km	177	245			
CO <sub>2</sub>	eels and 245/45	R18 tyres	and with winter tyres (SA 2SR, 9WR, 931)				
CO <sub>2</sub>		1/1 001,000	10.4				
CO <sub>2</sub>		l/100km					
CO <sub>2</sub> With 8J x 18 wh Urban Extra-urban		l/100km	6.1	-			
CO <sub>2</sub> With 8J x 18 wh Urban Extra-urban Composite		l/100km l/100km	7.7	- - -			
CO <sub>2</sub> With 8J x 18 wh Urban Extra-urban Composite CO <sub>2</sub>		l/100km l/100km g/km	7.7 179	- - -			
CO <sub>2</sub> With 8J x 18 wh Urban Extra-urban Composite CO <sub>2</sub> With 8J x 18 wh		I/100km I/100km g/km x 18 at the	7.7 179 rear and 245/45 R18 tyres at front, 275/45 R18				
CO <sub>2</sub> With 8J x 18 wh Urban Extra-urban Composite CO <sub>2</sub> With 8J x 18 wh With 8.5J x 19 w	vheels at front, 9	I/100km I/100km g/km x 18 at the 3J x 19 at th	7.7 179 rear and 245/45 R18 tyres at front, 275/45 R18 e rear and 245/40 R19 tyres at front, 275/35 R	19 at the rear (SA 2FB, 2DP),			
CO <sub>2</sub> With 8J x 18 wh Urban Extra-urban Composite CO <sub>2</sub> With 8J x 18 wh With 8.5J x 19 w With 8.5J x 20 w	vheels at front, 9	I/100km I/100km g/km x 18 at the 3J x 19 at th 3J x 20 at th	7.7 179 rear and 245/45 R18 tyres at front, 275/45 R18 e rear and 245/40 R19 tyres at front, 275/35 R e rear and 245/35 R20 tyres at front, 275/30 R:	19 at the rear (SA 2FB, 2DP), 20 at the rear (SA 2H9)			
CO <sub>2</sub> With 8J x 18 wh Urban Extra-urban Composite CO <sub>2</sub> With 8J x 18 wh With 8.5J x 19 w With 8.5J x 20 w Urban	vheels at front, 9	I/100km I/100km g/km x 18 at the 9J x 19 at th JJ x 20 at th I/100km	7.7 179 rear and 245/45 R18 tyres at front, 275/45 R18 e rear and 245/40 R19 tyres at front, 275/35 R e rear and 245/35 R20 tyres at front, 275/30 R 10.5	19 at the rear (SA 2FB, 2DP), 20 at the rear (SA 2H9) 15.5			
CO <sub>2</sub> With 8J x 18 wh Urban Extra-urban Composite CO <sub>2</sub> With 8J x 18 wh With 8.5J x 19 w With 8.5J x 20 w Urban Extra-urban	vheels at front, 9	I/100km I/100km g/km x 18 at the 3J x 19 at th 3J x 20 at th I/100km I/100km	7.7 179 rear and 245/45 R18 tyres at front, 275/45 R18 e rear and 245/40 R19 tyres at front, 275/35 R e rear and 245/35 R20 tyres at front, 275/30 R: 10.5 6.2	19 at the rear (SA 2FB, 2DP), 20 at the rear (SA 2H9) 15.5 7.7			
CO <sub>2</sub> With 8J x 18 wh Urban Extra-urban Composite CO <sub>2</sub> With 8J x 18 wh With 8.5J x 19 w With 8.5J x 20 w Urban	vheels at front, 9	I/100km I/100km g/km x 18 at the 9J x 19 at th JJ x 20 at th I/100km	7.7 179 rear and 245/45 R18 tyres at front, 275/45 R18 e rear and 245/40 R19 tyres at front, 275/35 R e rear and 245/35 R20 tyres at front, 275/30 R 10.5	19 at the rear (SA 2FB, 2DP), 20 at the rear (SA 2H9) 15.5			

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

 $<sup>^{1)}\,</sup>$  Oil change quantity  $^{2)}\,$  Fuel consumption and  $CO_2$  emissions depend on the selected tyre format