BMW Media information

BMW i technology for the luxury class:



The new BMW 740e iPerformance, the new BMW 740Le iPerformance, the new BMW 740Le xDrive iPerformance.

(At a glance)

The BMW eDrive drive system technology developed for BMW i cars has arrived in the new BMW 7 Series model range in the shape of three plug-in hybrid luxury sedans. The trio source their power from the myriad talents of a latest-generation four-cylinder petrol engine with BMW TwinPower Turbo technology and an electric motor. Together, they deliver a system output of 240 kW/326 hp. The new BMW 740e iPerformance with standard wheelbase and the new BMW 740Le iPerformance with long wheelbase capture the imagination with supreme dynamics, yet also record average petrol consumption of 2.2 – 2.0 litres per 100 kilometres / 128.4 – 141.2 mpg imp and CO₂ emissions of 50 – 45 grams per kilometre (BMW 740Le iPerformance: 51 – 45 g/km). In the new BMW 740Le xDrive iPerformance (petrol consumption combined: 2.5 - 2.1 /100 km [113 - 134.5 mpg imp]; CO₂ emissions combined: 56 -49 g/km), intelligent all-wheel drive distributes the combined power of the combustion engine and electric motor permanently and as required between the front and rear wheels.

The plug-in hybrid variants of the new BMW 7 Series allow top-level driving pleasure, long-distance comfort and luxury to be experienced in combination with all-electric, locally emission-free mobility as well. The BMW iPerformance Automobiles represent the most rigorous implementation yet of Efficient Dynamics in vehicles from the BMW brand. Both BMW eDrive and the body structure with Carbon Core are rooted in know-how from BMW i. When it comes to charging the high-voltage battery, customers benefit from innovative products and services originally developed for BMW i. The BMW 740e iPerformance, BMW 740Le iPerformance and BMW 740Le xDrive iPerformance can also be specified as an option with antidazzle BMW Laserlight, which celebrated its world premiere in the BMW i8 plug-in hybrid sports car.

Intelligent energy management optimises the interplay of the combustion engine and electric motor. The electric boost function provides a noticeable increase in dynamic vigour – expressed most prominently by the powertrain's instantaneous responses – and combines with enhanced efficiency courtesy of the electric assist function and the opportunity to drive through town and cross-country on electric power only to create a unique symbiosis of driving

pleasure and sustainability. The maximum electric range, as per the EU test cycle for plug-in hybrid vehicles, is 44 – 48 kilometres / 27 – 30 miles for the BMW 740e iPerformance and BMW 740Le iPerformance, or 41 – 45 kilometres / 25 – 28 miles for the BMW 740Le xDrive iPerformance (figures may vary depending on the tyre format specified).

The best of two worlds: BMW eDrive and BMW TwinPower Turbo technology.

The combustion engine with BMW TwinPower Turbo technology employed by the plug-in hybrid variants of the new BMW 7 Series is a member of the new Efficient Dynamics engine family. Developing maximum output of 190 kW/258 hp, it is the most powerful four-cylinder engine ever fitted in a series-produced BMW. Instantaneous power delivery and peak torque of 400 Newton metres (295 lb-ft) – on tap across a wide rev range (1,550 – 4,400 rpm) – imbue the 2.0-litre unit with vivaciously sporty yet also poised and authoritative performance. In addition, the new engine displays outstanding refinement.

The electric drive system, based on the principle of a permanently excited synchronous motor, boasts exceptionally high power density with a maximum output of 83 kW/113 hp. As is characteristic for electric drive systems, it serves up its peak torque of 250 Newton metres (184 lb-ft) from the word go. The boost effect for the combustion engine provides the driver with thrillingly instantaneous responses. Furthermore, the electric motor takes on the role of a generator which – depending on the hybrid function selected – is powered either by recuperating braking energy or by efficiently raising the engine's load points. It then feeds the energy it generates into the high-voltage battery.

The electric motor is fully integrated into the eight-speed Steptronic transmission. This ensures that pure-electric driving, the dynamics-enhancing electric boost function and the recuperation of braking energy are all extremely efficient. The eight-speed Steptronic transmission has outstanding internal efficiency, top-class shift dynamics and shift comfort, and a compact construction. Gearshift paddles on the steering wheel are available as an option, enabling the driver to make manual gear selections with exceptional swiftness and the greatest of ease.

Working together intelligently, the combustion engine and electric drive system bring a system output of 240 kW/326 hp and a combined peak torque of 500 Newton metres (369 lb-ft) to the table. Immediate response to every movement of the accelerator and sustained delivery of dynamic power allow the BMW 740e iPerformance to dash from 0 to 100 km/h (62 mph) in

5.4 seconds and the BMW 740Le iPerformance to complete the same sprint in 5.5 seconds.

The cars' sporty driving characteristics are accompanied by extraordinarily low petrol consumption and emissions. The BMW 740e iPerformance and BMW 740Le iPerformance both record combined petrol consumption of 2.2 – 2.0 litres per 100 kilometres (128.4 – 141.2 mpg imp). The CO₂ emissions associated with petrol consumption are 50 – 45 grams per kilometre (figures as calculated in the EU test cycle for plug-in hybrid vehicles, may vary depending on the tyre format specified). The exceptional efficiency of the BMW eDrive technology developed using know-how from BMW i is revealed once again in all-electric, locally emission-free driving. The electric power consumption of the plug-in hybrid luxury sedans, as calculated in the EU test cycle, stands at 13.3 – 12.5 kWh per 100 kilometres for the BMW 740Le iPerformance and 13.3 – 12.6 kWh per 100 kilometres for the BMW 740Le iPerformance (figures may vary depending on the tyre format specified).

BMW 740Le xDrive iPerformance: permanent all-wheel drive also applies to all-electric driving.

The BMW 740Le xDrive iPerformance follows in the tyre tracks of the BMW X5 xDrive40e iPerformance Sports Activity Vehicle as the brand's second model to distribute its power permanently to all four wheels in pure-electric driving, when the combustion engine cuts in and when both drive systems are in use at the same time. The intelligent all-wheel-drive system ensures supreme traction, optimised directional stability and enhanced agility through enthusiastically taken corners in all weather and road conditions.

Perfectly executed power distribution between the front and rear wheels gives the BMW 740Le xDrive iPerformance extremely dynamic accelerative ability, with the journey from rest to 100 km/h (62 mph) completed in 5.3 seconds. Yet the petrol consumption of the BMW 740Le xDrive iPerformance is just 2.5 – 2.1 litres per 100 kilometres (113 – 134.5 mpg imp) combined, while the associated CO_2 emissions are 56 – 49 grams per kilometre (figures as calculated in the EU test cycle for plug-in hybrid vehicles, may vary depending on the tyre format specified). The combined electric power consumption of the BMW 740Le xDrive iPerformance in the EU test cycle comes in at between 13.9 and 13.2 kWh per 100 kilometres (figures may vary depending on the tyre format specified).

eDrive button allows powertrain control to be configured as desired.

The driver can use the eDrive button on the centre console to change how the plug-in hybrid drive system operates. In the AUTO eDRIVE hybrid

function, intelligent energy management ensures the combustion engine and electric motor work together with maximum efficiency and to dynamically optimised effect. The operating strategy defaults to all-electric mode at low and moderate speeds to utilise the advantages of locally emission-free mobility as widely as possible. The combustion engine only joins the fray at a speed of around 80 km/h (50 mph) or under heavy throttle applications.

The driver can switch to the MAX eDRIVE pure-electric mode at the touch of a button. In this setting the car is powered exclusively by the electric motor, although the combustion engine can be brought into play at any time by pushing the accelerator into kickdown. In the MAX eDRIVE setting, the BMW iPerformance variants of the new BMW 7 Series have a pure-electric top speed of 140 km/h (87 mph).

The Battery Control setting allows the charge of the high-voltage battery to be set manually. The driver can input a target value between 30 and 100 per cent of maximum charge, which is then available for pure-electric driving later in the journey. For example, electric power can be held back or even increased while on the motorway so it can be used subsequently for locally emission-free driving in town.

Driving Experience Control switch with ADAPTIVE mode, clearly noticeable differentiation between SPORT, COMFORT and ECO PRO mode.

The plug-in hybrid variants of the new BMW 7 Series are also equipped as standard with the newly designed Driving Experience Control switch on the centre console. At the touch of a button, the driver can activate a vehicle setting that optimises dynamics, comfort or efficiency. The range of characters encompassed by ECO PRO, COMFORT and SPORT modes are even more clearly defined than with conventionally powered vehicles.

Beyond this, the Driving Experience Control switch offers the option of selecting ADAPTIVE mode. In this setting, the car's responses adapt noticeably to the driver's style and route profile.

High-voltage lithium-ion battery: developed specifically for the models at hand, integrated with space-saving skill.

The high-voltage lithium-ion battery has a gross capacity of 9.2 kWh and net capacity of 7.4 kWh. It is accommodated underneath the rear seat bench in a space-saving position that also provides optimum crash safety. The BMW iPerformance variants of the new BMW 7 Series therefore also benefit from a level surface in the luggage compartment, which offers a capacity of

420 litres. The stowage volume and practicality of the load area set the benchmark in the luxury plug-in hybrid sedan segment.

The energy flow between the high-voltage battery, electric motor and charger is controlled by power electronics likewise developed specifically for these models. The power electronics also regulate the supply of energy from the high-voltage battery to the 12V onboard electrical system via a voltage transformer.

Simple, hassle-free and flexible charging thanks to innovative products and services von BMW 360° ELECTRIC.

The high-voltage battery can be topped up with energy from any domestic power socket, a Wallbox designed for higher currents or public charging stations. The battery can be fully charged in under four hours from a domestic power socket and in under three hours from a BMW i Wallbox. Added to which, BMW 360° ELECTRIC includes the ChargeNow service, which grants straightforward access to partner charging stations and can also be used for the convenient billing of monthly energy costs.

Standard specification includes auxiliary air conditioning.

The high level of standard specification for the BMW 740e iPerformance, BMW 740Le iPerformance and BMW 740Le xDrive iPerformance includes LED headlights, the BMW Display Key, the ConnectedDrive navigation package, smartphone integration with inductive charging facility for the phone battery, and an iDrive operating system expanded to include a touchscreen function for the Control Display and the globally unique BMW gesture control feature. Customers can also look forward to auxiliary heating and air conditioning, which allow them to prepare the car's interior temperature in advance. The heating and air conditioning system of the plug-in hybrid models is supplied with energy from the high-voltage battery. When the car's battery is being charged, the auxiliary air conditioning function is powered by the mains supply.

The charger connection for the high-voltage battery can be found under the flap in the left-hand front side panel. The high-set position of the connection makes the charging process easier. Standard equipment includes a charging cable for use with a domestic power socket, which can be stored in a bag in the boot area to save space. Inside the BMW 740e iPerformance, BMW 740Le iPerformance and BMW 740Le xDrive iPerformance, the most prominent hybrid-specific features include – in addition to the eDrive button – special graphic displays in the instrument cluster and Control Display. On the outside, the transfer of technology from BMW i is flagged up by "eDrive"

badges on the C-pillars, the BMW i logo on the front side panels (left and right), BMW kidney grille bars in BMW i Blue and blue hub covers.

Exceptional efficiency coupled with driving pleasure, long-distance comfort and made-to-measure luxury.

The iPerformance variants of the BMW 7 Series model range bring together exceptional efficiency and a form of luxurious driving pleasure and long-distance comfort that speaks to both the present and the future. Both the front and rear seats can be specified as an option with comfort seats, active seat ventilation, a massage function with Vitality Programme and the Heat Comfort package. Maximising personal wellbeing in the rear compartment of the BMW 740Le iPerformance and BMW 740Le xDrive iPerformance, meanwhile, is the Executive Lounge option. Moreover, the Sky Lounge Panorama glass roof is also available for these models.

The selection of driver assistance systems includes the new-generation BMW Head-Up Display as well as the Parking Assistant, Driving Assistant, Driving Assistant Plus and Surround View systems. The iPerformance variants of the new BMW 7 Series can also be ordered as an option with the M Sport package, Pure Excellence exterior design and interior design packages and BMW Individual Design Composition.

Flexible and efficient production of electric drive systems in modelspecific configurations.

The BMW Group uses the knowledge gained in the development of BMW i cars for the production of its own electric motors and high-voltage batteries. BMW eDrive technology is also employed in the BMW iPerformance models. The company's stand-out expertise in the field of electric drive systems is reflected not only in the exceptional performance of the electric motors and high-voltage batteries, but also in efficient production methods. An intelligent modular system for eDrive technology and a flexible production concept enable the BMW Group to respond quickly and precisely to customer requirements the world over.

Specifications. BMW 740e iPerformance, BMW 740Le iPerformance.



		BMW 740e iPerformance	BMW 740Le iPerformance	
Body				
No of doors/seats		4/5	4/5	
Length/width/height 1) (unladen)	mm	5098 / 1902 / 1467	5238 / 1902 / 1479	
Wheelbase	mm	3070	3210	
Track, front/rear	mm	1617 / 1646	1617 / 1646	
Ground clearance	mm	135	135	
Turning circle	m	12.3	12.8	
Fuel tank capacity Engine oil 2)	approx ltr	46	46	
Weight, unladen, to DIN/EU	ltr	5.25	5.25 1940 / 2015	
Max load to DIN	kg	1900 / 1975 685		
Max permissible weight	kg kg	2585	2600	
Max axle load, front/rear	kg	1140 / 1470	1160 / 1475	
Max roofload/towbar download	kg	100/-	100 / -	
Luggage comp capacity	Kg Itr	420	420	
Air resistance	c _d x A	0.25 x 2.41	0.25 x 2.42	
	Ol XX	OLEG A ELTT	OILO X EL IL	
Drive system	Г.			
Drive concept		ıll hybrid drive, torque vectoring to re		
System output System torque	kW/hp Nm	240 / 326 500	240 / 326 500	
Weight-to-power ratio (DIN)	kg/kW	7.9	8.1	
vveignt-to-power ratio (Dilv)	Kg/KVV	7.9	8.1	
Combustion engine				
Config/No of cyls/valves		in-line / 4 / 4	in-line / 4 / 4	
Engine technology	ı	BMW TwinPower Turbo technolo High Precision Injection, VALVETRC Double VANOS variable	NIC fully variable valve control,	
Effective capacity	cm ³	1998	1998	
Stroke/bore	mm	94.6 / 82.0	94.6 / 82.0	
Compression ratio	:1	10.2	10.2	
Fuel grade	•••	min RON 91	min RON 91	
Output	kW/hp	190 / 258	190 / 258	
at	rpm	5000 - 6500	5000 – 6500	
Torque	Nm	400	400	
at	rpm	1550 – 4400	1550 – 4400	
Output per litre	kW/ltr	95.1	95.1	
Electric motor				
Motor technology		BMW eDrive technology: synchronous electric motor integrated in 8-speed Steptronic transmission, generator function for energy recuperation for the high-voltage battery		
Max output	kW/hp	83 / 113	83 / 113	
at	rpm	3170	3170	
Torque	Nm	250	250	
at	rpm	0 – 3170	0 – 3170	
Recuperation output	kW	20	20	
High-voltage battery				
Storage technology / installation		lithium-ion / under	neath rear seat	
Voltage	V	351	351	
Capacity (gross)	kWh	9.2	9.2	
Charging time for 100% charge		2.7 h at 3.7 kW (16 A / 230 V)	2.7 h at 3.7 kW (16 A / 230 V)	
Transmission				
Type of transmission		8-speed Steptronic	8-speed Steptronic	
Gear ratios I	:1	4.714	4.714	
	:1	3.143	3.143	
	:1	2.106	2.106	
IV	:1	1.667	1.667	
	:1	1.285	1.285	
V				
V	:1	1.000	1.000	
		1.000 0.839		
VI	:1		1.000 0.839 0.667	

BMW Media information

Final drive	:1	3.077	3.077

	B	BMW 740e iPerformance	BMW 740Le iPerformance
Driving dynamics and safety			
Suspension, front	Dou	ıble track control arm axle with s	enarate lower track arm level
Cusperision, none		ninium, small steering roll radius, automatic self-	anti-dive, air suspension with
Suspension, rear	Fiv	re-link axle, aluminium, with stee	
		anti-dive, double acoustic separation, air suspension with automatic levelling	
Brakes, front		Four-piston fixed-calliper	J
Brakes, rear		Single-piston floating-callipe	·
Driving stability systems	Stand	lard: DSC incl. ABS, ASC and D	
J , ,	Co	rnering Brake Control (CBC), Dy	namic Brake Control (DBC), tion, Start-Off Assistant, Dynamic
Safety equipment	Standa		assenger, side airbags for driver
3			st and 2nd seat row, driver's side
			elts on all seats, integrated at the
		it with belt tightener and belt for	·
		pressure ind	
Steering		Electric Power Ste	
	V	vith Servotronic function, option	al: Integral Active Steering
Steering transmission, overall	:1	16.9	16.9
Tyres, front/rear		225/60 R17 99Y	225/60 R17 99\
Rims, front/rear		7.5J x 17 light-alloy	7.5J x 17 light-allog
Performance			
Acceleration 0–100 km/h	S	5.4	5.5
Maximum speed	km/h	250	250
Maximum speed electric	km/h	140	
TVIAXIITIAITI OPOCA OICOTTO	KITI/II	140	140
BMW EfficientDynamics			
standard measures	BMW E vents, c	coasting function and Proac EfficientLightweight, optimised a on-demand operation of ancillan	ft Indicator, ECO PRO mode with tive Driving Assistant, aerodynamic attributes, active air y units, map-controlled oil pump,
		behaviour, tyres with redu	rential with optimised warm-up uced roll resistance
		behaviour, tyres with redu	
Fuel consumption in EU cycle	for hybrid vehicles ³	behaviour, tyres with redu	
With standard wheels and tyres		behaviour, tyres with redu	uced roll resistance
With standard wheels and tyres Petrol consumption combined	l/100 km	behaviour, tyres with reduced behaviour.	uced roll resistance
With standard wheels and tyres Petrol consumption combined CO ₂ emissions from petrol	l/100 km g/km	behaviour, tyres with reduced by the second behaviour be	uced roll resistance 2.0 4.1
With standard wheels and tyres Petrol consumption combined CO ₂ emissions from petrol Electric power consumption	l/100 km	behaviour, tyres with reduced behaviour.	uced roll resistance 2.0 4.1
With standard wheels and tyres Petrol consumption combined CO ₂ emissions from petrol Electric power consumption combined	l/100 km g/km kWh/100 km	behaviour, tyres with reduced by the second	2.0 2.1 2.6 2.1 2.1 2.6 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1
With standard wheels and tyres Petrol consumption combined CO ₂ emissions from petrol Electric power consumption combined Electric range	l/100 km g/km kWh/100 km	behaviour, tyres with reduced by the second behaviour be	2.0 2.1 2.6 2.1 2.1 2.6 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1
With standard wheels and tyres Petrol consumption combined CO ₂ emissions from petrol Electric power consumption combined Electric range With 8J x 18 wheels and 245/50 f	l/100 km g/km kWh/100 km km R18 tyres	2.0 45 12.5	2.0 48
With standard wheels and tyres Petrol consumption combined CO ₂ emissions from petrol Electric power consumption combined Electric range With 8J x 18 wheels and 245/50 Petrol consumption combined	I/100 km g/km kWh/100 km km R18 tyres I/100 km	2.0 45 12.5 48	2.0 44 12.0
With standard wheels and tyres Petrol consumption combined CO ₂ emissions from petrol Electric power consumption combined Electric range With 8J x 18 wheels and 245/50 Petrol consumption combined CO ₂ emissions from petrol	/100 km g/km kWh/100 km km R18 tyres /100 km g/km	2.0 45 12.5 48	2.0 48 2.1 48 2.2
With standard wheels and tyres Petrol consumption combined CO ₂ emissions from petrol Electric power consumption combined Electric range With 8J x 18 wheels and 245/50 f Petrol consumption combined CO ₂ emissions from petrol Electric power consumption	I/100 km g/km kWh/100 km km R18 tyres I/100 km	2.0 45 12.5 48	2.0 48 2.1 48 2.2
With standard wheels and tyres Petrol consumption combined CO ₂ emissions from petrol Electric power consumption combined Electric range With 8J x 18 wheels and 245/50 f Petrol consumption combined CO ₂ emissions from petrol Electric power consumption combined	/100 km g/km kWh/100 km km /100 km g/km /100 km	2.0 45 12.5 48 2.1 49 13.1	2.0 48 2.0 49 12.0 49 2.0 49 13.0
With standard wheels and tyres Petrol consumption combined CO ₂ emissions from petrol Electric power consumption combined Electric range With 8J x 18 wheels and 245/50 F Petrol consumption combined CO ₂ emissions from petrol Electric power consumption combined Electric power consumption Electric range	/100 km g/km kWh/100 km km R18 tyres /100 km g/km kWh/100 km	2.0 45 12.5 48 2.1 49 13.1	2.0 48 2.0 49 12.0 49 2.0 49 13.0
With standard wheels and tyres Petrol consumption combined CO ₂ emissions from petrol Electric power consumption combined Electric range With 8J x 18 wheels and 245/50 F Petrol consumption combined CO ₂ emissions from petrol Electric power consumption combined Electric range With 8.5J x 19 wheels and 245/45 With 8.5J x 19 front wheels, 9.5J	I/100 km g/km kWh/100 km R18 tyres I/100 km g/km kWh/100 km km 5 R19 tyres, and with w x 19 rear wheels, 245/4	2.0 45 12.5 48 2.1 49 13.1 45 inter tyres 15 R19 front tyres, 275/40 R19 in	2.0 44 12.6 45 13. 45 rear tyres
With standard wheels and tyres Petrol consumption combined CO ₂ emissions from petrol Electric power consumption combined Electric range With 8J x 18 wheels and 245/50 F Petrol consumption combined CO ₂ emissions from petrol Electric power consumption combined Electric range With 8.5J x 19 wheels and 245/49 With 8.5J x 19 front wheels, 9.5J With 8.5J x 20 front wheels, 10J x	/100 km g/km kWh/100 km R18 tyres /100 km g/km kWh/100 km km 5 R19 tyres, and with w x 19 rear wheels, 245/4	2.0 45 12.5 48 2.1 49 13.1 45 inter tyres 15 R19 front tyres, 275/40 R19 of R20 front tyres, 275/35 R20 r	2.0 41 12.6 42 2.1 43 13.1 45 rear tyres ear tyres
With standard wheels and tyres Petrol consumption combined CO ₂ emissions from petrol Electric power consumption combined Electric range With 8J x 18 wheels and 245/50 Petrol consumption combined CO ₂ emissions from petrol Electric power consumption combined Electric power consumption Electric power sons from petrol Electric range With 8.5J x 19 wheels and 245/48 With 8.5J x 20 front wheels, 9.5J With 8.5J x 20 front wheels, 10J x With 8.5J x 21 front wheels, 10J x	/100 km g/km kWh/100 km R18 tyres /100 km g/km kWh/100 km km 5 R19 tyres, and with w x 19 rear wheels, 245/4 x 20 rear wheels, 245/4	2.0 45 12.5 48 2.1 49 13.1 45 inter tyres 15 R19 front tyres, 275/40 R19 r 0 R20 front tyres, 275/35 R20 r 5 R21 front tyres, 275/30 R21 r	2.0 41 12.0 42 2.1 43 13.1 44 rear tyres ear tyres ear tyres ear tyres
With standard wheels and tyres Petrol consumption combined CO ₂ emissions from petrol Electric power consumption combined Electric range With 8J x 18 wheels and 245/50 Petrol consumption combined CO ₂ emissions from petrol Electric power consumption combined Electric power consumption Electric range With 8.5J x 19 wheels and 245/44 With 8.5J x 19 front wheels, 9.5J With 8.5J x 20 front wheels, 10J x With 8.5J x 21 front wheels, 10J x Petrol consumption combined	/100 km g/km kWh/100 km R18 tyres /100 km g/km kWh/100 km km 5 R19 tyres, and with w x 19 rear wheels, 245/4 x 20 rear wheels, 245/3 /100 km	2.0 45 12.5 48 2.1 49 13.1 45 inter tyres 45 R19 front tyres, 275/40 R19 of R20 front tyres, 275/35 R20 rd 5 R21 front tyres, 275/30 R21 rd 2.2	2.0 44 12.0 45 2.1 49 13.1 49 rear tyres ear tyres ear tyres ear tyres
With standard wheels and tyres Petrol consumption combined CO ₂ emissions from petrol Electric power consumption combined Electric range With 8J x 18 wheels and 245/50 Petrol consumption combined CO ₂ emissions from petrol Electric power consumption combined Electric range With 8.5J x 19 wheels and 245/44 With 8.5J x 19 front wheels, 9.5J With 8.5J x 20 front wheels, 10J x With 8.5J x 21 front wheels, 10J x Petrol consumption combined CO ₂ emissions from petrol	/100 km g/km kWh/100 km R18 tyres /100 km g/km kWh/100 km 5 R19 tyres, and with w x 19 rear wheels, 245/4 x 20 rear wheels, 245/4 x 21 rear wheels, 245/3 /100 km	2.0 45 12.5 48 2.1 49 13.1 45 inter tyres 45 R19 front tyres, 275/40 R19 r 0 R20 front tyres, 275/30 R21 r 2.2 50	2.0 48 12.0 49 13. 49 149 15. 49 16. 49 17. 49 18. 49 19.
With standard wheels and tyres Petrol consumption combined CO ₂ emissions from petrol Electric power consumption combined Electric range With 8J x 18 wheels and 245/50 f Petrol consumption combined CO ₂ emissions from petrol Electric power consumption combined Electric range With 8.5J x 19 wheels and 245/44 With 8.5J x 19 front wheels, 9.5J With 8.5J x 20 front wheels, 10J x With 8.5J x 21 front wheels, 10J x Petrol consumption combined CO ₂ emissions from petrol Electric power consumption combined CO ₂ emissions from petrol	/100 km g/km kWh/100 km R18 tyres /100 km g/km kWh/100 km km 5 R19 tyres, and with w x 19 rear wheels, 245/4 x 20 rear wheels, 245/3 /100 km	2.0 45 12.5 48 2.1 49 13.1 45 inter tyres 45 R19 front tyres, 275/30 R20 r 5 R21 front tyres, 275/30 R21 r 2.2 50 13.3	2.0 48 12.6 49 13. 49 13. 49 13. 49 15. 49 15. 49 16. 49 17. 49 18.
With standard wheels and tyres Petrol consumption combined CO ₂ emissions from petrol Electric power consumption combined Electric range With 8J x 18 wheels and 245/50 f Petrol consumption combined CO ₂ emissions from petrol Electric power consumption combined Electric range With 8.5J x 19 wheels and 245/45 With 8.5J x 19 front wheels, 9.5J With 8.5J x 20 front wheels, 10J y Petrol consumption combined CO ₂ emissions from petrol Electric power consumption Electric power consumption CO ₂ emissions from petrol Electric power consumption	/100 km g/km kWh/100 km R18 tyres /100 km g/km kWh/100 km 5 R19 tyres, and with w x 19 rear wheels, 245/4 x 20 rear wheels, 245/4 x 21 rear wheels, 245/3 /100 km	2.0 45 12.5 48 2.1 49 13.1 45 inter tyres 45 R19 front tyres, 275/40 R19 r 0 R20 front tyres, 275/30 R21 r 2.2 50	2.0 44 12.6 45 13.1 45 rear tyres ear tyres

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

 $^{^{1)}}$ Height including roof fin $^{2)}$ Oil change $^{3)}$ Fuel consumption and CO_2 emissions may vary depending on the tyre format specified

BMW 740Le xDrive iPerformance.

		BMW 740Le xDrive iPerformance
D. J.		
Body No of doors/seats		4/5
Length/width/height 1) (unladen)	mm	5238 / 1902 / 1479
Wheelbase	mm	3210
Track, front/rear	mm	1617 / 1646
Ground clearance	mm	135
Turning circle	m	12.9
Fuel tank capacity	approx ltr	46
Engine oil ²⁾	ltr	5.25
Weight, unladen, to DIN/EU	kg	2000 / 2075
Max load to DIN	kg	655
Max permissible weight	kg	2655
Max axle load, front/rear	kg	1205 / 1485
Max roofload/towbar download	kg	100 / –
Luggage comp capacity	ltr	420
Air resistance	c _d x A	0.25 x 2.42
Drive system		
Drive concept		Full hybrid drive, torque vectoring to all four wheels from one or both units via BMW xDrive
System output	kW/hp	240 / 326
System torque	Nn	
Weight-to-power ratio (DIN)	kg/kW	8.3

Combustion engine		
Config/No of cyls/valves		in-line / 4 / 4
Engine technology		BMW TwinPower Turbo technology: TwinScroll turbocharger, High Precision Injection, VALVETRONIC fully variable valve control, Double VANOS variable camshaft control
Effective capacity	cm ³	1998
Stroke/bore	mm	94.6 / 82.0
Compression ratio	:1	10.2
Fuel grade		min RON 91
Output	kW/hp	190 / 258
at	rpm	5000 - 6500
Torque	Nm	400
at	rpm	1550 – 4400
Output per litre	kW/ltr	95.1
Electric motor		DNMA/ - Driver techniques of the control of the con
Motor technology		BMW eDrive technology: synchronous electric motor integrated in 8-speed Steptronic transmission, generator function for energy recuperation for the high-voltage battery
Max output	kW/hp	83 / 113
at	rpm	3170
Torque	Nm	250
at	rpm	0 – 3170
Recuperation output	kW	20
High-voltage battery		
Storage technology / installation		lithium-ion / underneath rear seat
Voltage	V	
Capacity (gross)	kWh	
Charging time for 100% charge	ICVVII	2.7 h at 3.7 kW (16 A / 230 V)
Transmission		
Type of transmission		8-speed Steptronic
Gear ratios I	:1	4.714
	:1	3.143
<u>"</u>	:1	2.106
IV	:1	1.667
V	:1	1.285
VI	:1	1.000
VII	:1	0.839
VIII	:1	0.667
* ***	• •	·

BMW Media information

-	R	:1	3.317	
Final drive		:1	3.231	

		BMW 740Le xDrive iPerformance		
Driving dynamics and safety				
Suspension, front		Double track control arm axle with separate lower track arm lev	el.	
		aluminium, small steering roll radius, anti-dive, air suspension v automatic self-levelling		
Suspension, rear		Five-link axle, aluminium, with steering function, anti-squat ar	Д	
Suspension, real	anti-	anti-dive, double acoustic separation, air suspension with automatic		
Brakes, front		levelling		
Brakes, rear		Four-piston fixed-calliper disc brakes, vented Single-piston floating-calliper disc brakes, vented		
Driving stability systems	C+	andard: DSC incl. ABS, ASC and DTC (Dynamic Traction Con	trol)	
Driving stability systems	Dr	Cornering Brake Control (CBC), Dynamic Brake Control (DBC) y Braking function, Fading Compensation, Start-Off Assistant, cross-linked with xDrive all-wheel drive, Dynamic Damper Con-), DSC	
Safety equipment		andard: airbags for driver and front passenger, side airbags for		
		front passenger, head airbags for 1st and 2nd seat row, driver		
		ee airbag, three-point inertia-reel belts on all seats, integrated		
		front with belt tightener and belt force limiter, crash sensors, ty	/re	
		pressure indicator		
Steering		Electric Power Steering (EPS)		
0		with Servotronic function, optional: Integral Active Steering		
Steering transmission, overall	:1	16.9		
Tyres, front/rear		225/60 R17 99Y		
Rims, front/rear		7.5J x 17 light-alloy		
Performance				
Acceleration 0–100 km/h		5.3		
Maximum speed	s km/h			
Maximum speed electric		250		
Maximum speed electric	km/h	140		
DIAM Efficient Demander				
BMW EfficientDynamics BMW EfficientDynamics	DM	W eDrive technology, Electric Power Steering (EPS), hybrid-sp	:6: .	
standard measures	Auto BIV ver c	o Start Stop function, Optimum Shift Indicator, ECO PRO moc coasting function and Proactive Driving Assistant, IW EfficientLightweight, optimised aerodynamic attributes, act its, on-demand operation of ancillary units, map-controlled oil particular detachable a/c compressor, rear differential and power divider of optimised warm-up behaviour, tyres with reduced roll resistan	e with ive air oump, vith	
Fuel consumption in EU cycle	for hybrid vehicl	es ³⁾		
With standard wheels and tyres				
Petrol consumption combined	l/100 km	2.1		
CO ₂ emissions from petrol	g/km	49		
		13.2		
·	kWh/100 km	1012		
combined				
combined Electric range	km	45		
combined Electric range With 8J x 18 wheels and 245/50	km R18 tyres	45		
Electric range With 8J x 18 wheels and 245/50 Petrol consumption combined	km R18 tyres I/100 km	45 2.4		
combined Electric range With 8J x 18 wheels and 245/50 Petrol consumption combined CO ₂ emissions from petrol	km R18 tyres I/100 km g/km	2.4 54		
combined Electric range With 8J x 18 wheels and 245/50 Petrol consumption combined CO ₂ emissions from petrol Electric power consumption	km R18 tyres I/100 km	45 2.4		
combined Electric range With 8J x 18 wheels and 245/50 Petrol consumption combined CO ₂ emissions from petrol Electric power consumption combined	km R18 tyres I/100 km g/km kWh/100 km	2.4 54 13.7		
combined Electric range With 8J x 18 wheels and 245/50 Petrol consumption combined CO ₂ emissions from petrol Electric power consumption combined Electric range	km R18 tyres I/100 km g/km kWh/100 km	2.4 54 13.7		
combined Electric range With 8J x 18 wheels and 245/50 Petrol consumption combined CO ₂ emissions from petrol Electric power consumption combined Electric range With 8.5J x 19 wheels and 245/4	km R18 tyres I/100 km g/km kWh/100 km km 5 R19 tyres, and wit	2.4 54 13.7 42 th winter tyres		
combined Electric range With 8J x 18 wheels and 245/50 Petrol consumption combined CO ₂ emissions from petrol Electric power consumption combined Electric range With 8.5J x 19 wheels and 245/4 With 8.5J x 19 front wheels, 9.5J With 8.5J x 20 front wheels, 10J	km R18 tyres I/100 km g/km kWh/100 km km 5 R19 tyres, and wit x 19 rear wheels, 2 x 20 rear wheels, 24	2.4 54 13.7 42 th winter tyres 45/45 R19 front tyres, 275/40 R19 rear tyres 45/40 R20 front tyres, 275/35 R20 rear tyres		
combined Electric range With 8J x 18 wheels and 245/50 Petrol consumption combined CO ₂ emissions from petrol Electric power consumption combined Electric range With 8.5J x 19 wheels and 245/4 With 8.5J x 19 front wheels, 9.5J With 8.5J x 20 front wheels, 10J With 8.5J x 21 front wheels, 10J	km R18 tyres I/100 km g/km kWh/100 km km 5 R19 tyres, and wit x 19 rear wheels, 2 x 20 rear wheels, 24 x 21 rear wheels, 24	2.4 54 13.7 42 th winter tyres 45/45 R19 front tyres, 275/40 R19 rear tyres 45/40 R20 front tyres, 275/35 R20 rear tyres 45/35 R21 front tyres, 275/30 R21 rear tyres		
combined Electric range With 8J x 18 wheels and 245/50 Petrol consumption combined CO ₂ emissions from petrol Electric power consumption combined Electric range With 8.5J x 19 wheels and 245/4 With 8.5J x 19 front wheels, 9.5J With 8.5J x 20 front wheels, 10J With 8.5J x 21 front wheels, 10J Petrol consumption combined	km R18 tyres I/100 km g/km kWh/100 km 5 R19 tyres, and wit x 19 rear wheels, 2 x 20 rear wheels, 24 x 21 rear wheels, 24	2.4 54 13.7 42 th winter tyres 45/45 R19 front tyres, 275/40 R19 rear tyres 45/40 R20 front tyres, 275/35 R20 rear tyres 45/35 R21 front tyres, 275/30 R21 rear tyres 2.5		
combined Electric range With 8J x 18 wheels and 245/50 Petrol consumption combined CO ₂ emissions from petrol Electric power consumption combined Electric range With 8.5J x 19 wheels and 245/4 With 8.5J x 19 front wheels, 9.5J With 8.5J x 20 front wheels, 10J With 8.5J x 21 front wheels, 10J Petrol consumption combined CO ₂ emissions from petrol	km R18 tyres I/100 km g/km kWh/100 km 5 R19 tyres, and wit x 19 rear wheels, 2 x 20 rear wheels, 2 x 21 rear wheels, 24 I/100 km g/km	45 2.4 54 13.7 42 th winter tyres 45/45 R19 front tyres, 275/40 R19 rear tyres 45/40 R20 front tyres, 275/35 R20 rear tyres 45/35 R21 front tyres, 275/30 R21 rear tyres 2.5 56		
combined Electric range With 8J x 18 wheels and 245/50 Petrol consumption combined CO ₂ emissions from petrol Electric power consumption combined Electric range With 8.5J x 19 wheels and 245/4 With 8.5J x 19 front wheels, 9.5J With 8.5J x 20 front wheels, 10J With 8.5J x 21 front wheels, 10J Petrol consumption combined CO ₂ emissions from petrol Electric power consumption	km R18 tyres I/100 km g/km kWh/100 km 5 R19 tyres, and wit x 19 rear wheels, 2 x 20 rear wheels, 24 x 21 rear wheels, 24	2.4 54 13.7 42 th winter tyres 45/45 R19 front tyres, 275/40 R19 rear tyres 45/40 R20 front tyres, 275/35 R20 rear tyres 45/35 R21 front tyres, 275/30 R21 rear tyres 2.5		
combined Electric range With 8J x 18 wheels and 245/50 Petrol consumption combined CO ₂ emissions from petrol Electric power consumption combined Electric range With 8.5J x 19 wheels and 245/4 With 8.5J x 20 front wheels, 9.5J With 8.5J x 21 front wheels, 10J Petrol consumption combined CO ₂ emissions from petrol Electric power consumption combined	km R18 tyres I/100 km g/km kWh/100 km 5 R19 tyres, and wit x 19 rear wheels, 2 x 20 rear wheels, 2 x 21 rear wheels, 24 I/100 km g/km kWh/100 km	45 2.4 54 13.7 42 th winter tyres 45/45 R19 front tyres, 275/40 R19 rear tyres 45/40 R20 front tyres, 275/35 R20 rear tyres 45/35 R21 front tyres, 275/30 R21 rear tyres 2.5 56 13.9		
combined Electric range With 8J x 18 wheels and 245/50 Petrol consumption combined CO ₂ emissions from petrol Electric power consumption combined Electric range With 8.5J x 19 wheels and 245/4 With 8.5J x 19 front wheels, 9.5J With 8.5J x 20 front wheels, 10J With 8.5J x 21 front wheels, 10J Petrol consumption combined CO ₂ emissions from petrol Electric power consumption	km R18 tyres I/100 km g/km kWh/100 km 5 R19 tyres, and wit x 19 rear wheels, 2 x 20 rear wheels, 2 x 21 rear wheels, 24 I/100 km g/km	45 2.4 54 13.7 42 th winter tyres 45/45 R19 front tyres, 275/40 R19 rear tyres 45/40 R20 front tyres, 275/35 R20 rear tyres 45/35 R21 front tyres, 275/30 R21 rear tyres 2.5 56		

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

 $^{^{1)}}$ Height including roof fin $^{2)}$ Oil change $^{3)}$ Fuel consumption and CO_2 emissions may vary depending on the tyre format specified