

# The BMW i7 M70 xDrive. Short version.



BMW M is introducing an all-electric performance model to spearhead the new BMW 7 Series range. The BMW i7 M70 xDrive (electric power consumption combined: 23.8 – 20.8 kWh/100 km in the WLTP cycle) is the most powerful model with an all-electric drive system in the overall BMW Group portfolio. Equipped with an electric motor at both the front and rear axle generating a maximum system output of 485 kW/660 hp\* and an M-specific chassis, the BMW i7 M70 xDrive delivers the perfect combination of electric mobility and performance, resulting in a driving experience unique in the luxury segment. The range-topping model of the new BMW 7 Series line-up accelerates from 0 to 100 km/h (62 mph) in 3.7 seconds, making it the fastest all-electric BMW model. Top speed is electronically limited to 250 km/h (155 mph).

With this new performance record for all-electric vehicles in the BMW Group, the BMW i7 M70 xDrive also marks another milestone for BMW M GmbH on its path to transforming towards electric mobility. The luxury sedan is already the third performance model with all-electric drive. The BMW i7 M70 xDrive will premiere at the Auto Shanghai international motor show (18 to 27 April 2023) in China. The global market launch will begin in the second half of 2023.

## **The most powerful BMW electric motor.**

The fifth-generation BMW eDrive technology used in the BMW i7 is being advanced permanently to increase both performance and efficiency. The BMW i7 M70 xDrive features highly integrated drive units on the front and rear axles, with the electric motor, power electronics and transmission very compactly combined in a common housing.

The M specific design of the current-excited synchronous machine principle enables the electric motor of the BMW i7 M60 - especially in the case of the rear motor - to achieve a power density which is unprecedented. With a value of 2.41 kW/kg, it is currently the most powerful BMW electric motor.

This new performance record is achieved thanks to an innovation patented by the BMW Group, which uses six excitation coils in the stator of the electric motor instead of the usual three. This allows the electric

machine to generate extremely high power in a light and compact design and to provide it continuously up into high speed ranges. It is clearly superior to a drive solution with two motors on the rear axle in terms of power density, but also with regard to efficiency.

**Maximum power delivery with M Sport Boost and M Launch Control.**

The motor acting on the rear axle generates a maximum output of 360 kW/489 hp. In precisely controlled interaction with the 190 kW/258 hp electric motor on the front axle, an electric all-wheel drive system is created with a system torque of 1,015 Nm in Sport Mode and as much as 1,100 Nm when M Launch Control and the M Sport Boost function are activated. In this way the BMW i7 M70 xDrive generates outstanding pulling power.

In the M Launch Control function, both the drive torque control and the traction control are integrated into the engine control unit. This ensures that the power generated by the electric motors is precisely controlled, so that it can be converted into thrilling performance without any loss of traction.

The M Sport Boost function can be activated by pressing the shift paddle on the left-hand side of the steering wheel and is staged using M Performance-specific graphics in the instrument cluster. It is also authentically accompanied by a particularly emotionally powerful, M Performance-specific sound which is part of the standard BMW IconicSounds Electric feature by Hans Zimmer.

**High long-distance capability, new MAX RANGE function.**

The extreme dynamic performance of the BMW i7 M70 xDrive is combined with high long-distance capability. With a usable energy content of 101.7 kWh, the high-voltage battery located in the vehicle underbody enables the BMW i7 M70 xDrive to achieve a range of 488 to 560 kilometres as determined in the WLTP test cycle. By using the new MAX RANGE function, the range can be increased by around 15 to 25 percent by selectively limiting the drive power and top speed, combined with reducing comfort functions.

The Combined Charging Unit's advanced charging software promotes efficiency and speed when charging the high-voltage storage unit as standard, with an output of up to 22 kW for alternating current and up to 195 kW for direct current. This makes it possible to top up the range by up to 170 kilometres (WLTP) within 10 minutes when stopping at a high-power charging station.

### **M specific suspension technology optimises dynamics and comfort.**

The M specific application of all control systems for the electric all-wheel drive, the steering, the shock absorbers and the driving dynamics systems creates the conditions for combining hallmark M dynamics, agility and precise response with a high level of long-distance comfort. The standard suspension technology of the BMW i7 M70 xDrive includes M specific adaptive two-axle air suspension with automatic self-levelling and electronically controlled shock absorbers whose response is optimised thanks to M specific hydraulics.

Integral Active Steering and the Executive Drive Pro suspension package including Active Roll Stabilisation with Active Roll Comfort also feature as standard equipment. The package also offers an M sports brake system and 21-inch M light alloy wheels.

### **Individual aura signals superior performance.**

Exclusive design highlights and hallmark M design features, which are oriented towards the technical requirements of a decidedly sporty driving style, set the exterior design of the BMW i7 M70 xDrive apart from the other models in the series. Its highly individual aura signals outstanding dynamic performance and reveals its power potential at first glance.

The front design reinterprets the brand-typical elements of twin circular headlights and BMW radiator grille. The impressive presence generated by the front is emphasised further by the contour line lighting for the BMW radiator grille. In conjunction with the optional M Performance Package, it is combined for the first time on the BMW i7 M70 xDrive with a radiator grille surround in high-gloss black. In the side view and at the rear of the BMW i7 M70 xDrive, too, hallmark M design features such as M exterior mirrors with a characteristic double bar, the striking M side skirts and the model-specific rear apron with diffuser insert clearly highlight the top model's performance-oriented character.

### **New two-tone paintwork, biomass-based Frozen paints.**

The BMW i7 M70 xDrive can be finished in a wide range of body paintwork. Customers can also choose from well over 100 BMW Individual special paint finishes. The BMW Individual Two-Tone paint finish, which can now also include BMW Individual special paint finishes, makes for a particularly extravagant look. Among other options, the BMW Individual Liquid Copper metallic for the lower car body and Sapphire Black metallic for the upper body section can be combined.

The Frozen paint finishes available for the BMW i7 M70 xDrive are produced using an innovative process based on biomass instead of petroleum. In the process, the formulation of the product is not changed, only the raw materials used are sourced from sustainable sources.

**Innovative features for ensuring luxurious travel comfort.**

The highlights, which also give the top model its progressive luxury character and make long-distance travel very comfortable, include the BMW Interaction Bar in the cockpit and the Executive Lounge with optimised reclining function in the rear. The unique BMW Theatre Screen and Bowers & Wilkins surround sound system transform the rear into an exclusive private cinema on wheels. The high level of comfort and safety is further optimised thanks to advanced systems for automated driving and parking. For example, the Parking Assistant and Manoeuvring Assistant can now also be controlled via the My BMW app.

The optionally available automatic doors can be opened and closed both via the My BMW app and with the BMW Digital Key Plus using a smartphone. Thanks to the advanced Lock/Unlock function, the driver's door opens automatically as soon as the smartphone on which the individual BMW Digital Key Plus is installed approaches the vehicle. After getting in, the driver's door can be closed by pressing the brake pedal, among other possible ways of opening and closing the door.

**Sporty flair and maximum individualisation in the interior.**

M specific equipment details in the interior emphasise the sporty flair of the BMW i7 M70 xDrive. Its standard equipment range includes illuminated M door sill trims, M Merino leather upholstery in Black/Atlas Grey, an M leather steering wheel, M specific displays on the BMW Curved Display and an M driver's footrest.

Optional extras include the BMW Individual Interior package and the BMW Individual Interior with exclusive features in a total of nine colour variants. The BMW Individual leather Merino/wool cashmere combination with exclusive features is also available in Black/Dark Grey.

**Advanced BMW iDrive featuring "QuickSelect".**

The BMW i7 M70 xDrive is one of the brand's first models to feature the latest generation of BMW iDrive with "QuickSelect" and BMW Operating System 8.5. The advanced display and operating system offers a redesigned entry screen and "QuickSelect" access with an improved menu structure oriented towards consumer electronics devices. BMW

iDrive with "QuickSelect" is combined with the BMW Curved Display and the BMW Intelligent Personal Assistant.

The new entry screen permanently shows the map view of the navigation system or other displays that can be individually configured. On the same level, vertically arranged function icons which you can select with a swipe movement are available on the driver's side of the control surface. The corresponding functions can be called up directly with "QuickSelect" without switching to a submenu.

The cloud-based navigation system BMW Maps now not only offers an Augmented View display on the Information Display behind the steering wheel, but also improved functions for even more precise and charging station optimised navigation. In addition, the services and apps already introduced in the new BMW 7 Series are also available in conjunction with the BMW Operating System 8.5.

A full description of the BMW 7 Series can be found [here](#), further information [here](#).

All data on performance, consumption, emissions and range are provisional values.

All the model variants, equipment levels, technical specifications, consumption and emission values described correspond to what is available on the automotive market in Germany, provided the respective vehicle is offered there. Deviations in other markets are possible. The information on the dimensions refers to a vehicle in basic equipment in Germany, depending on the selected wheel and tyre size as well as selected optional equipment. These may change according how the car is configured.

Fuel consumption, CO<sub>2</sub> emission figures and power consumption as well as electric range are measured using the methods required according to Regulation VO (EC) 2007/715 as amended. This information is based on a vehicle with basic equipment in Germany; ranges take into account differences in wheel and tyre size selected as well as optional equipment.

All figures have already been calculated based on the new WLTP test cycle. WLTP values are used as a basis for the assessment of taxes and other vehicle-related levies that are (also) based on CO<sub>2</sub> emissions and, where applicable, for the purposes of vehicle-specific subsidies. Further information on the WLTP and NEDC measurement procedures is also available at [www.bmw.de/wltp](http://www.bmw.de/wltp) can be found.

For further details of the official fuel consumption figures and official specific CO<sub>2</sub> emissions of new cars, please refer to the "Manual on the fuel consumption, CO<sub>2</sub> emissions and power consumption of new cars", available at sales outlets free of charge, from Deutsche Automobil Treuhand GmbH (DAT), Hellmuth-Hirth-Str. 1, 73760 Ostfildern-Scharnhausen and at <https://www.dat.de/co2/>.