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# Technical specifications. BMW i7 M70 xDrive.



|        | BMW i7 M70 xDrive  |
|--------|--|
|        |  |
|        | Battery Electric Vehicle - BEV / Sedan   |
|        |  |
|        | 4/5  |
| mm     | 5391 / 1950 / 1544   |
| mm     | 3215   |
| mm     | 1662 / 1684  |
| m      | 12.3   |
| mm     | 136  |
| kg     | 2695 / 2770  |
| kg     | 555  |
| kg     | 3250   |
| kg     | 1550 / 1800  |
| kg     | -/-  |
|        |  |
| 1      | 500  |
| Cy X A | 0.26 x 2.60  |
|        |  |
| F      | Electric all-wheel drive, coordinated transmission of drive torque   |
|        | rom one electric motor to the front and one to the rear wheels as  |
|        | needed   |
| kW/hn  | 485 / 660 1)   |
|        | 1100 <sup>1)</sup>   |
|        | 5.6  |
| K9/KW  | Automatic transmission, single-stage with fixed ratio  |
|        | Automatic transmission, single-stage with fixed ratio  |
|        |  |
|        | Fifth-generation BMW eDrive technology:  |
|        | Current-excited synchronous machines, electric motor, power  |
|        | electronics and transmission each integrated in a common   |
|        | housing, generator function for recuperation   |
|        |  |
|        | 190 / 258  |
| kW/hp  |  |
| rpm    | 8000   |
|        | 70 / 95  |
| kW/hp  |  |
| Nm     | 365  |
| rpm    | 0 - 5000   |
| :1     | 8.774  |
|        |  |
|        | 360 / 489  |
| kW/hp  |  |
|        | 13000  |
|        | 125 / 170  |
| kW/hn  | 1257 170   |
|        | 650  |
|        | 0 - 5000   |
|        | 8.765  |
| :1     | 0./00  |
|        | 1 Martines from  |
|        | Lithium-ion  |
|        | Underbody  |
|        | 376.4  |
|        | 280.8  |
| kWh    | 101.7  |
|        | < 5.5 h at 22 kW (32 A / 380 V, AC three-phase, wallbox)   |
|        | 34 min at 195 kW (DC, fast charging station)   |
|        |  |
|        |  |
|        | Combined Charging Unit (CCU) with integrated 4-kW voltage<br>converter for supplying the 12-volt electrical system |
| kW     | 3.7 (EU) / 7.4 (incl. CN, KR) / 11.0 (US, JP)  |
| kW     | 22.0   |
|        |  |
|        | mm<br>m<br>kg<br>kg<br>kg<br>kg<br>kg<br>kg<br>kg<br>kg<br>kg<br>kg<br>kg<br>kg<br>kg                              |

| Driving dynamics and safety     |            |  |
|---------------------------------|------------|--|
| Front wheel suspension          |            | Double wishbone suspension in aluminium construction, M<br>specific adaptive air suspension with automatic self-levelling,<br>electronically controlled dampers  |
| Rear wheel suspension           |            | Five-link axle in aluminium construction, M specific adaptive air<br>suspension with automatic self-levelling, electronically controlled<br>dampers  |
| Brakes, front                   |            | Four-piston, fixed-caliper disc brakes, ventilated   |
| Brakes, rear                    |            | Single-piston, floating-caliper disc brakes, ventilated  |
| Driving stability systems       |            | Standard: DSC incl. ABS, ASC and DTC (Dynamic Traction<br>Control), ARB technology (Actuator-Related Wheel Slip<br>Limitation), Cornering Brake Assist CBC, Brake Assist DBC, Dry<br>Brake Function, Fade Compensation, Hill Start Control, Trailer<br>Stability Control, Performance Control, Active Roll Stabilisation<br>with Active Roll Comfort |
| Safety equipment                |            | Standard: Airbags for driver and passenger, side airbags for<br>driver and passenger, front and rear head airbags, 3-point<br>automatic-reel belt on all seats, with seat belt stopper at front,<br>seat belt tensioner and seat belt force limiter, crash sensors, tyre<br>pressure display   |
| Steering                        |            | Electrically assisted rack-and-pinion steering (EPS) with<br>Servotronic function and variable steering ratio, Integral Active<br>Steering   |
| Overall steering ratio          | :1         | 15.6   |
| Tyres, front/rear.              |            | 255/40 R21 102 Y XL / 285/35 R21 105 Y XL  |
| Wheel rims, front/rear          |            | 9J x 21 LM / 10,5J x 21 LM   |
| Driving performance figures     |            |  |
| Acceleration 0-100 km/h         | s          |  |
| Top speed                       | km/h       | 250  |
| Consumption / range             |            |  |
| Power consumption combined      |            |  |
| (WLTP)                          | kWh/100 km | 23.8 - 20.8  |
| Power consumption combined      |            |  |
| (NEDC)                          | kWh/100 km |  |
| Range (WLTP)                    | km         | 488 - 560  |
| Environmental features          |            |  |
| Emission rating                 |            | Electric vehicle   |
| Insurance rating                |            |  |
| 3rd party/fully comprehensive/3 | rd         | 2)   |
| party fire + theft              |            |  |

Technical specifications valid for ACEA markets / registration-related data only relevant to Germany in some cases (weights) All mileage, consumption and emission figures are provisional.

 $^{\rm D}$  with M Launch Control or M Sport Boost function activated  $^{\rm 2)}$  Data not yet available

Fuel consumption,  $CO_2$  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.

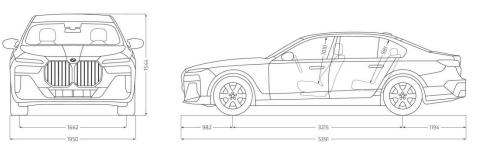
All figures have already been calculated based on the new WLTP test cycle. WLTP values are used as a basis for the assessment of taxes and other vehicle-related levies that are (also) based on  $CO_2$  emissions and, where applicable, for the purposes of vehicle-specific subsidies. Further information on the WLTP and NEDC measurement procedures is also available at www.bmw.de/wltp can be found.

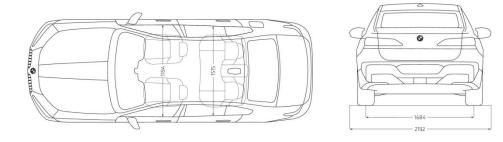
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The dimensions in the technical drawing are in millimetres and may vary depending on the optional equipment. All values are provisional.

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- All-electric performance automobile from BMW M GmbH now heads the model range of the new BMW 7 Series. New BMW i7 M70 xDrive (combined power consumption: 23.8 - 20.8 kWh/100 km according to WLTP) featuring a unique combination of electric drive and performance in the luxury segment. World premiere at the Auto Shanghai international motor show in April 2023. Market launch in the second half of 2023.
- Acceleration from zero to 100 km/h in 3.7 seconds. The fastest and most powerful all-electric model in the BMW Group range. A highly integrated e-drive unit on each front and rear axle together generate a maximum system output of 485 kW/660 hp\*. Top speed limited to 250 km/h. BMW i7 M70 xDrive as the third all-electric performance model and a further milestone in BMW M GmbH's transformation to e-mobility.
- The vehicle is manufactured together with all other models of the new BMW 7 Series at the BMW Group Plant Dingolfing. Electric motors and high-voltage batteries for all variants of the BMW i7 are also manufactured directly on site.
- Electric all-wheel drive featuring hallmark M performance characteristics thanks to consistently enhanced fifth-generation BMW eDrive technology. Innovative electric motor on the rear axle with twice the number of excitation coils in the stator and the highest power density ever achieved in BMW electric motors.
- Highest system output and maximum torque of 1,100 Nm available with M Sport Boost function and M Launch Control. Intelligent drive control and M specific control systems enable extremely spirited, superior and traction-optimised acceleration.
- Hallmark M dynamic performance, agility and handling precision combined with outstanding long-distance comfort of a BMW 7 Series Sedan and a range of 488 to 560 kilometres (WLTP). High-voltage battery integrated into the vehicle underbody with a usable energy

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content of 101.7 kWh. AC charging as standard with up to 22 kW, DC charging possible with up to 195 kW.

- More convenience and flexibility when planning charging stops on long journeys. BMW Maps navigation system with optimised calculation of charge-optimised routes. New MAX RANGE function makes it possible to increase the range by 15 to 25 percent by limiting power and top speed selectively as well as by reducing comfort functions.
- Standard suspension technology includes M specific adaptive twoaxle air suspension, electronically controlled shock absorbers, Integral Active Steering, Executive Drive Pro including Active Roll Stabilisation with Active Roll Comfort, M sports braking system and 21-inch M light alloy wheels. Optional sports tyres available for the first time for a model variant of the BMW i7.
- M specific design features signal superior performance: BMW radiator grille with M badge, front apron with large air deflector elements, M exterior mirrors, M side skirts, model-specific rear apron with diffuser.
- Contour line lighting of the BMW radiator grille can be combined for the first time with surround in high-gloss black from the optional M Performance package. Other package contents: M rear spoiler, finisher and rear apron inlay each in black.
- Wide range of paintwork, including well over 100 BMW Individual special paint finishes. Two-tone paint finish also available in combination with BMW Individual special paint finishes, including BMW Individual Liquid Copper metallic and Sapphire Black metallic. Frozen paints produced using an innovative biomass balance process.
- Cockpit design specifically focused on providing a concentrated performance experience with illuminated M door sill trims, M leather steering wheel, M driver's footrest and M specific displays on the BMW Curved Display.
- BMW Individual Interior package and BMW Individual Interior with exclusive features available as optional equipment in a total of nine colour variants. M interior trims in Carbon Fibre finish with silver

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threads in conjunction with surfaces in Piano Finish Black optionally available.

- Exclusive equipment features underline the progressive premium character of the BMW i7 M70 xDrive: BMW Interaction Bar in the cockpit, Executive Lounge with optimised reclining function in the rear, BMW Theatre Screen, Bowers & Wilkins Surround Sound System. Optional automatic doors open and close contactlessly via My BMW App and BMW Digital Key Plus on the smartphone. Parking and manoeuvring assistant can also be controlled outside the vehicle via smartphone using the My BMW app.
- Enhanced BMW iDrive with "QuickSelect" and BMW Operating System 8.5. New entry screen with vertically arranged function icons on the same level. "QuickSelect" enables functions to be accessed directly without having to switch to submenus. Fast, intuitive operation via the touch function of the BMW Curved Display in the style of consumer electronics devices.
- All digital services and apps introduced in the new BMW 7 Series are available. BMW Intelligent Personal Assistant and other voice assistants, video streaming on the Control Display, smartphone integration, My Modes and Personal e-SIM can also be used in the BMW i7 M70 xDrive.

A full description of the BMW 7 Series can be found <u>here</u>, further information <u>here</u>.

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. Deviations in other markets are possible.

Fuel consumption,  $CO_2$  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  $CO_2$  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 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/.

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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

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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 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.

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#### 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. 04/2023 page 4

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

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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,  $CO_2$  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 can be found.

For further details of the official fuel consumption figures and official specific  $CO_2$  emissions of new cars, please refer to the "Manual on the fuel consumption,  $CO_2$  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/.

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|---|---|
| All-electric BMW M Performance in the luxury segment                | 3 |
| Sporting presence, luxurious elegance, stylish individuality        | 8 |
| Updated BMW iDrive with QuickSelect and<br>BMW Operating System 8.5 | 3 |

This media information focuses on the differentiation of the BMW i7 M70 xDrive from the BMW i7 xDrive60. You can find a full examination of the BMW 7 Series range <u>here</u> and further information <u>here</u>.

All figures relating to performance, fuel/electric power consumption, emissions and range are provisional.

All of the stated model variants, equipment features, technical data and fuel/electric power consumption and emissions figures relate to the offering in the German market. These may vary for other markets. Dimensions and measurements refer to vehicles with basic configuration in Germany. These may vary depending on the wheel/tyre size and items of optional equipment selected.

The fuel consumption,  $CO_2$  emissions, electric power consumption and electric range figures are determined according to the European Regulation (EC) 715/2007 in the version applicable. The figures refer to a vehicle with basic configuration in Germany and the range shown considers the different sizes of the selected wheels/tyres and the selected items of optional equipment.

All values were calculated based on the new WLTP test cycle. WLTP values are taken as the basis for determining vehicle-related taxes or other duties based (at least inter alia) on  $CO_2$  emissions as well as eligibility for any applicable vehicle-specific subsidies. Further information on the WLTP and NEDC measurement procedures can also be found at www.bmw.de/wltp.

Further information on official fuel consumption figures and specific CO<sub>2</sub> emission values of new passenger cars is included in the following guideline: 'Leitfaden über den Kraftstoffverbrauch, die CO<sub>2</sub>-Emissionen und den Stromverbrauch neuer Personenkraftwagen' (Guide to the fuel economy, CO<sub>2</sub> emissions and electric power consumption of new passenger cars), which can be obtained free of charge from all dealerships, from Deutsche Automobil Treuhand GmbH (DAT), Hellmuth-Hirth-Str. 1, 73760 Ostfildern-Scharnhausen and at https://www.dat.de/co2.

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### The most powerful all-electric BMW model.



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).

Producing the highest output ever for an all-electric car from the BMW Group, the BMW i7 M70 xDrive marks another milestone for BMW M GmbH in its electric mobility transformation. Following the launch of the BMW i4 M50 – BMW M GmbH's best-selling model worldwide in 2022 – and the BMW iX M60, this is now the company's third performance model to have an all-electric drive system. The success of electric propulsion among BMW M brand enthusiasts, the consistent expansion of the product offering and the repeated increases in drive system output clearly highlight the huge potential of electric tech to deliver performance that captures the imagination.

The new all-electric performance model from BMW M will make its global debut at the Auto Shanghai international motor show (18–27 April 2023) in China. It will be built at BMW Group Plant Dingolfing, together with all other model variants of the luxury sedan. As well as being the lead plant for luxury models, the production facility in Lower Bavaria is also home to the competence centre for electric drive system production, which manufactures both the electric motors and the high-voltage batteries for all variants of the BMW i7 on site. The worldwide launch of the BMW i7 M70 xDrive will start in the second half of 2023.

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### All-electric BMW M Performance in the luxury segment.



The fifth-generation BMW eDrive technology installed in the BMW i7 is being constantly developed in order to further improve both power output and efficiency. This applies not only to the powertrain and power electronics, but also to the high-voltage battery and charging technology.

The BMW i7 M70 xDrive is equipped with highly integrated drive units at the front and rear axles, which bring together the electric motor, power electronics and transmission within a single, very compact housing. The two motors work according to the principle of an electrically excited synchronous motor. This type of design makes it possible to completely avoid the use of rare earth metals (required for magnetic components) in the manufacture of the rotor.

#### The most powerful BMW electric motor.

An M-specific configuration of the drive system technology enables the BMW i7 M70 xDrive's rear-axle motor, in particular, to achieve unprecedented levels of power density. The drive unit has a six-phase design with a dual inverter. This forms the basis for a very substantial increase in peak output that remains on tap up to high speeds, endowing the BMW i7 M70 xDrive with the power delivery characteristic of M models. The motor's power density of 2.41 kW/kg represents an increase of 25.5 per cent over the unit that drives the rear axle of the BMW i7 xDrive60 and means that the new BMW i7 M70 xDrive is fitted with what is currently the company's most powerful electric motor.

This new standard-setting figure can be attributed to a BMW Grouppatented innovation developed under the umbrella of BMW EfficientDynamics, which uses six excitation windings in the motor's stator instead of the customary three. The resulting "double excitation" compared with conventional units allows the electric motor to generate an extremely high output, despite its exceptionally light and compact design, and to maintain it continuously into the higher echelons of the speed range. This solution is also far superior to a drive configuration using two motors at the rear axle in terms of both power density and efficiency.

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# Developing maximum power with the M Sport Boost function and M Launch Control.

The motor powering the rear axle generates peak output of 335 kW/456 hp. Its precisely coordinated interaction with the 190 kW/258 hp motor at the front axle creates an electric all-wheeldrive set-up generating system torque of 1,015 Nm (748 lb-ft) in Sport mode and as much as 1,100 Nm (811 lb-ft) when M Launch Control or the M Sport Boost function is activated. The drive system in the BMW i7 M70 xDrive therefore offers outstanding pulling power. Capable of sprinting from 0 to 100 km/h (62 mph) in an impressive 3.7 seconds, the BMW i7 M70 xDrive is the fastest purely electrically powered BMW model. Top speed is electronically limited to 250 km/h (155 mph). The performance characteristics of the drive system are also characterised by sustained power delivery, which ensures rapid speed increases even in higher speed ranges.

With the M Launch Control function, both drive and traction control are integrated into the motor control unit. This ensures the power generated by the electric motors is metered extremely precisely, allowing the drive system's M-typical performance characteristics to be instantly converted into stunning acceleration without any loss of traction.

The M Sport Boost function is activated with the shift paddle on the left of the steering wheel and is visualised by Performance-specific graphics in the instrument cluster. At the same time, the standard BMW IconicSounds Electric by Hans Zimmer provides a fitting acoustic accompaniment by switching to a particularly exhilarating, M Performance-specific note.

The soundtrack's character varies according to the vehicle setting selected, with a clearly perceptible acoustic distinction between the My Mode Personal and Sport. In Sport Mode, the spectrum of sound is particularly dominant and powerful. The drive sound composed specifically for fully electrically powered BMW M models therefore helps to create an even more intense experience of the performance characteristics.

#### Extremely dynamic performance, excellent long-distance capabilities.

The extremely dynamic performance of the new BMW i7 M70 xDrive is allied to excellent long-distance capabilities. Credit here goes not just to the efficiency of the highly integrated drive units, but also a wealth of measures for reducing power consumption. These include adaptive recuperation of braking energy and the heat pump technology used in

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the integrated heating and cooling system for the cabin and powertrain. The BMW i7 M70 xDrive posts a combined electric power consumption of 23.8 – 20.8 kWh per 100 kilometres in the WLTP test cycle.

Another factor alongside this optimised efficiency is the high-voltage battery's impressive energy density. Located in the vehicle's underbody, the battery provides 101.7 kWh of usable energy. This gives the BMW i7 M70 xDrive a range of 488 – 560 kilometres (303 – 348 miles, WLTP cycle), making it eminently suitable for everyday use. The Combined Charging Unit features exceptionally advanced charging software designed for charging the high-voltage battery faster and more efficiently. The BMW i7 M70 xDrive is capable of AC charging at up to 22 kW as standard, while DC power can be taken on board at a rate of up to 195 kW. This means the range can be extended by as much as 170 kilometres (106 miles, WLTP) in just ten minutes during a midjourney stop at a high-power charging station.

#### MAX RANGE operating mode: extra range at the push of a button.

The car's range can be extended while on the move by activating a new drive system function. The launch of the BMW i7 M70 xDrive marks the introduction of a MAX RANGE mode for the all-electric models in the new BMW 7 Series range. In this mode, drive power and top speed are carefully restricted and comfort functions scaled back, allowing range to be increased by some 15 to 25 per cent.

The MAX RANGE mode was mainly devised for situations where drivers are unable to recharge mid-journey as originally planned because, for example, the charging station they were heading for is out of service. Switching to the My Mode Efficient and activating the MAX RANGE function extends the range by a comfortable margin for the journey to an alternative charging point for the high-voltage battery. To this end, the vehicle's top speed is limited to 90 km/h (56 mph). At the same time, the climate control system for the cabin is deactivated and the rear window heating switches to a lower setting, while seat heating, seat ventilation and the steering wheel heating are all initially deactivated too in MAX RANGE mode. A popup window appears in the control display indicating the resulting gain in range as a distance. The speed and power output gauges in the information display are also modified accordingly and the extra range is taken into account in the range forecast.

The MAX Range mode can be triggered using the control display's touchscreen functionality, the Controller or voice commands to the BMW Intelligent Personal Assistant. It can also be deactivated by hard in-gear

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acceleration (kickdown), engaging the M Sport Boost function or switching windscreen ventilation to maximum.

#### Powertrain and chassis technology in an M-specific application.

In addition to the extreme power of the drive system, chassis technology tuned precisely to deliver M-specific performance characteristics contributes to a unique performance experience in the luxury segment.

The electric all-wheel drive, the steering, the dampers and the driving stability systems are each underpinned by the M-specific application of all control systems, ensuring superbly judged driving characteristics in all situations. The overall package of measures was fine-tuned during an exhaustive programme of testing and produces exceptionally sporty handling for a model in this class, accompanied by high comfort over long distances. Helped by the almost silent drive system, passengers in the rear seats, in particular, can enjoy sumptuous levels of comfort. On the other hand, when the driver is exploring their sportier side, the BMW i7 M70 xDrive unveils the blend of dynamism, agility and precision with which BMW M models are synonymous and which is without parallel in this class. The My Mode Sport activates powertrain and chassis settings that are all geared purely to dynamic performance for an exhilarating driving experience.

Standard specification for the BMW i7 M70 xDrive includes M-specific adaptive two-axle air suspension with electronically controlled dampers and automatic self-levelling. M-specific air springs with reduced volume and an adapted rolling contour increase the number of vibrations at the front and rear axles by six in each case and provide a noticeably direct connection to the vehicle body. M-specific hydraulics are also used to optimise damper response.

An additional shear panel between the bulkhead and spring strut towers produces a substantial increase in body rigidity at the front end of the BMW i7 M70 xDrive. Also to be found on the standard equipment list are Integral Active Steering and the Executive Drive Pro chassis package including active roll stabilisation with Active Roll Comfort. As well as helping to increase comfort, these two systems – together with the stiffer body – hone the car's handling dynamics. This translates into an appetite for corners, which are taken with sharp and precise turn-in characteristics.

The blue M Sport brakes with M logo fitted as standard come with large brake discs for increased stopping power. Brake callipers painted in

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black are available as part of the optional M Performance package. This is also the first time that sport tyres have been offered as an option for a purely electrically powered BMW 7 Series model. The standard 21-inch M light-alloy wheels on the new BMW i7 M70 xDrive feature an exclusive, aerodynamically optimised design with a Jet Black solid finish and high-gloss metal inserts.

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### Sporting presence, luxurious elegance, stylish individuality.



The superior performance of the new BMW i7 M70 xDrive, which results from the most powerful drive system ever developed with BMW eDrive technology and from M-specific chassis technology, is authentically reflected in its confident design. Fronted by M-specific design features like the M exterior mirrors with distinctive twin-stalk design, the BMW kidney grille with M badging, bespoke inlays in the rear bumper and M logos on the front side panels, the BMW i7 M70 xDrive flies the flag for a new era of all-electric mobility in the luxury segment. At the same time, its extravagant appearance marks another milestone in the electrification of the BMW M brand.

The new top-of-the-range-variant of the BMW 7 Series brings extra sporting potency and the expressive aura of a BMW M model to the captivating visual presence of the latest model generation. In combination with the luxurious elegance generated by the sedan's proportions, this creates a stylish individuality that matches to the exclusive character of the BMW i7 M70 xDrive.

Like all members of the new BMW 7 Series model line-up, the BMW i7 M70 xDrive embodies the outstanding innovative power of the brand. Helping the car set new standards in the luxury segment alongside its pioneering drive system technology and revolutionary design – is an array of innovative equipment features. Among the highlights also bringing a sense of progressive luxury to the rangetopping model and enhancing the feeling of wellbeing over long journeys are 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 with optional inseat exciters turn the rear compartment into an exclusive personal cinema on wheels. Comfort and safety are elevated another notch by advanced systems for automated driving and parking. For example, the Parking Assistant and Manoeuvre Assistant can now also be controlled remotely using the My BMW App. This allows customers to enter and exit tight parking spaces with significantly greater ease.

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#### Opening and closing the doors automatically using the My BMW App and BMW Digital Key Plus.

Since March 2023 it has been possible in some countries to open and close the optional automatic doors of the new BMW 7 Series individually from outside the car and at a distance of up to six metres from a smartphone using the My BMW App. The BMW Digital Key Plus, a smartphone-based digital vehicle key, ensures that getting into and out of the new BMW i7 M70 xDrive is now even more comfortable. Making the difference here is an extended lock/unlock function for the automatic unlocking of the doors when approaching the car and the automatic locking process when walking away. It now also includes a contact-free opening and closing function for the driver's door.

The driver's door-opens automatically when the smartphone on which the BMW Digital Key Plus is installed comes within a certain distance of the car. After getting into the car, the driver can close the door again by pressing the brake pedal. Additionally, the BMW Digital Key Plus links up with the integrated collision protection functions for the automatic doors in order to stop the movement of the door if an obstacle is detected. The extended BMW Digital Key Plus is expected to be available from summer 2023 for all new BMW 7 Series cars fitted with automatic doors.

#### Distinctive front-end design signals superlative dynamism.

Exclusive accents and M-typical design elements reflecting the technical requirements of a car when driven with sporting commitment ensure that the BMW i7 M70 xDrive stands apart from the other models in the 7 Series model line-up with its exterior looks. Its distinctive aura signals the car's formidable dynamism and highlights at first glance the performance potential of the most powerful electrically powered model in the BMW Group product range.

At the heart of the front-end design for the new flagship model is the new interpretation of the hallmark BMW twin circular headlights and kidney grille. The light functions are divided into two separate areas. The extremely slim strip of lights set higher up in the front end brings together the daytime driving lights, sidelights and turn indicators. Available as an option, the BMW crystal headlights lconic Glow create a unique light effect. The low-beam and high-beam headlights are positioned in the dark lower units chiselled deep into the front apron.

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# An extra touch of exclusivity: illuminated BMW kidney Iconic Glow available for the first time together with the M Performance package.

The imposing presence of the front end gains additional visual impact with the contour lighting for the BMW kidney grille. On cars specified with the optional M Performance package, it combines with a grille surround in Black high-gloss for the first time on the BMW i7 M70 xDrive. This creates an unmistakable light signature, and the front end of the car is additionally showcased to impressive effect by the richly contrasting visual interplay between the brightly illuminated contouring and the dark shimmer of the grille surround.

Another eye-catching feature of the performance model's front-end design is the surfacing above the BMW kidney grille. The indented sweep running down the centre of the bonnet extends to the upper edge of the BMW kidney grille, providing an eye-catching border for the BMW badge.

The BMW kidney grille – which sports an M logo, underlining the rangetopping model's dynamic character – is bordered by Black high-gloss surfaces, giving it even greater visual prominence. Large air guide elements painted in body colour jut out from the outer sections of the front apron, framing the black centre section, and steer the onrushing air to the air curtains positioned at the extreme left- and right-hand edges of the apron.

#### Flanks and rear with M-specific design features.

M-specific design features along the flanks and at the rear of the new BMW i7 M70 xDrive clearly showcase the performance character of the top-of-the-range model variant. Eye-catching M side skirts, M logos with embellished borders on the front side panels, M High-gloss Shadowline trim and black M exterior mirrors with twin-stalk design add sporting flourishes.

A model-specific rear apron with diffuser insert rounds off the vehicle's expressive appearance. Cars specified with the optional M Performance package feature a black M rear spoiler, a black accent strip between the rear lights and an inlay – also in black – for the rear apron.

#### New variants of the BMW Individual two-tone paint finish.

A large selection of exterior paint shades is available for the BMW i7 M70 xDrive, including variants with striking matt-sheen Frozen paint finishes. Owners can add an extra layer of visual extravagance with BMW Individual two-tone paintwork, which can now include BMW Individual special paintwork colours. Available from the launch of the 04/2023 Page 11

BMW i7 M70 xDrive is the combination of BMW Individual Liquid Copper metallic for the lower section of the body and Saphire Black metallic for the upper section. An exquisite, precisely drawn coach line separates the two colour zones from one another like a delicate signature.

In addition, the range of exterior colours offers customers extra scope for giving their car a bespoke look. For example, eight two-tone variants and well over 100 BMW Individual special paintwork colours allow them to find a variant that precisely matches their tastes and therefore brings a very personal touch to the appearance of their BMW i7 M70 xDrive. All BMW Individual special paintwork colours are applied in a separate manufacturing process, with a higher proportion of the work carried out by hand.

#### Sustainably produced Frozen paint finishes based on biomass.

The BMW Group is the first automotive manufacturer worldwide to use matt paints made from biomass instead of crude oil at its European plants. The Frozen paint finishes available for the BMW i7 M70 xDrive are produced using this innovative process. Renewable raw materials such as bio-waste or waste from sewage treatment plants, which can replace the organic components of paint, serve as the starting material for these "biomass balance" paints.

The biomass balance process does not involve changing the formulation of the product; instead, it is about procuring the raw materials from carefully calculated sustainable sources. In fact, these sustainable paints are chemically identical to equivalents using fossil raw materials and meet the same high quality standards that the BMW Group applies for all the materials it uses. The use of sustainable paints made with biowaste not only reduces consumption of fossil resources, but also avoids the CO<sub>2</sub> emissions associated with the production, transport and processing of crude oil.

#### Sporting aura and maximum interior individualisation.

Customers wishing to customise the ambience inside the new BMW i7 M70 xDrive as well as the looks of the outside can do so in a variety of ways. The BMW i7 M70 xDrive comes as standard with Mspecific equipment details that accentuate its sporting flair and enhance its concentrated sense of driving pleasure. These include illuminated M door sills, M Merino leather trim in Black/Atlas Grey, an M leather steering wheel, M-specific content on the BMW Curved Display and an M driver's footrest.

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Among the items on the options list are the BMW Individual interior with and without exclusive features in a total of nine colour variants as well as the BMW Individual Merino leather/wool-cashmere combination with exclusive features in two variants, one of which is also offered in Black/Dark Grey. Carbon Fibre M interior trim with Silver Threads is offered as an option for the BMW i7 M70 xDrive in conjunction with surfaces in Piano Black.

#### BMW Individual Manufaktur produces bespoke one-off creations.

For the ultimate in customer focus, products made to measure and a razor-sharp eye for quality, BMW Individual Manufaktur should be your first port of call. The BMW Individual Manufaktur specialists develop and produce exclusive one-off creations with design and equipment details for the exterior and interior that precisely reflect the customer's desires. These include bespoke upholstery options, e.g. in a bi-colour variant, embroidery on the head restraints, and customised door sill plates and interior trim elements.

Individual solutions conjured with creativity, precision and masterful craftsmanship produce designs that faithfully reflect the owner's personal style. In order to ensure that the BMW Group's standards of quality and safety are maintained, every component from BMW Individual Manufaktur is put through the same testing procedure as standard parts.

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## Updated BMW iDrive with QuickSelect and BMW Operating System 8.5.



The BMW i7 M70 xDrive is one of the brand's first models to feature the updated version of the control/operation system BMW iDrive with QuickSelect and BMW Operating System 8.5. In order to make selecting and operating numerous functions and digital services even more intuitive and comfortable, the latest generation of BMW iDrive offers a newly designed home screen and QuickSelect functionality. This brings an improved menu structure that takes its cues from consumer electronics devices. By showing the right information in the right place, the new BMW iDrive helps to deliver a focused, assured driving experience.

The BMW iDrive update also enables a broader offering of digital content for information and entertainment, shorter function update cycles, better information on charging points for electric vehicles and improved access to a host of specific online services. BMW iDrive with QuickSelect also teams up with the BMW Curved Display and BMW Intelligent Personal Assistant, and so focuses squarely on operation using the touchscreen and natural language.

BMW iDrive with QuickSelect is based on BMW Operating System 8.5, which is making its debut in a series-produced model. The new BMW i7 M70 xDrive therefore not only represents a new dimension in driving pleasure with an all-electric drive system, it also ushers in the latest digital display and control/operation concept and infotainment.

# Functions are shown on a single level and can be activated using rapid-access tech.

The new home screen displays the navigation system's map view or other individually configurable graphics at all times. On the same level, function icons appearing in a vertical arrangement on the driver's side of the user interface can be selected with a swipe of the finger. QuickSelect allows the associated functions to be accessed directly and without having to pass through a submenu. And once the relevant settings have been chosen, a quick tap on the home icon at the lower edge of the display is all it takes to return to the home screen.

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The new menu structure makes activating functions and settings much faster and simpler. The on-board digital content – just like the hardware, in the form of the BMW Curved Display – is designed to enhance the driver focus for which BMW is renowned. BMW iDrive provides the right information in the right place and at the right time. To ensure intuitive operation while on the move, the graphical interface and menu structure feature a layout developed by BMW Group Design that is both consistent and characteristic of the brand.

#### M-specific content in the BMW Curved Display.

The emotionally engaging performance experience on board the BMW i7 M70 xDrive is further enhanced by M-specific content in the BMW Curved Display. In key areas, the typography and presentation of graphics reflect those in the cockpit of high-performance models from BMW M GmbH. The numbers in the speed read-out on the information display appear in a platinum/silver colour. Plus, activating the M Sport Boost function triggers a typically M visual accompaniment.

The new BMW iDrive with QuickSelect is underpinned by an upgraded version of BMW Operating System 8, as employed in current BMW models with the BMW Curved Display. BMW Operating System 8.5 uses the latest generation of the infotainment head unit, which takes care of graphics processing, among other things.

#### BMW Maps with new charging-optimised route guidance.

Other highlights of the new BMW iDrive include the extended functionality of the cloud-based navigation system BMW Maps. It now offers not only Augmented View on the information display behind the steering wheel, but also improved functions for even more precise charging-optimised route planning. This helps to make long journeys in the BMW i7 M70 xDrive particularly comfortable, efficient and swift.

Added to which, the services and apps already introduced in the new BMW 7 Series are also available with BMW Operating System 8.5. For example, the BMW Intelligent Personal Assistant and other voicecontrolled assistants, BMW ConnectedDrive Upgrades, BMW Remote Software Upgrades, video streaming on the control display, smartphone integration via Apple CarPlay<sup>®</sup> and Android Auto<sup>™</sup>, My Modes and the Personal eSIM can also be used in the new BMW i7 M70 xDrive.