



Mercedes-Benz

Press Information

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The GELÄNDEWAGEN. Electrified.

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Descriptions and data in this press kit apply to the international Mercedes-Benz model programme. Country-specific deviations are possible. Further information on the vehicles offered, including the WLTP values, can be found on a country-specific basis at <https://www.mercedesbenz.com>.

The all-new electric G-Class at a glance

The all-new Mercedes-Benz G 580 with EQ Technology (combined energy consumption: 30.3-27.7 kWh/100 km | combined CO₂ emissions: 0 g/km | CO₂ class: A)¹ is fully in keeping with the tradition of the model series established in 1979. Like the conventionally powered models, it is based on a ladder-frame concept, a selectable LOW RANGE off-road gear reduction system, independent front suspension and a rigid axle at the rear.

The 116 kWh high-voltage lithium-ion battery integrated into the ladder frame ensures a low centre of gravity and enables ranges of up to 473 kilometres according to WLTP¹. To protect it from water and dirt intrusion, it is housed in a torsion-resistant casing.

Underbody protection made from an intelligent mix of materials including carbon protects the battery from physical impact.

The all-new electric G-Class is powered by four individually controlled motors located near the wheels. They are integrated into the ladder frame and develop a maximum total output of 432 kW and a maximum torque of 1,164 Nm.

The all-new electric G-Class generates virtual differential locks via torque vectoring.

The innovative drive concept of the all-new electric G-Class enables unique driving functions for off-road use: G-TURN, G-STEERING and the intelligent off-road crawl function.

The G-ROAR sound experience includes a G-Class-specific driving sound, an “aura” and various “event” sounds.

A slightly raised bonnet, new A-pillar trim, spoiler lip on the roof and so-called “air curtains” in the rear wheel-arch flares contribute to optimised aerodynamics and interior aeroacoustics.

A redesigned off-road control unit, new OFFROAD COCKPIT and “transparent bonnet” enable a digital off-road experience.

The MBUX (Mercedes-Benz User Experience) infotainment system and a 31.2-centimetre (12.3-inch) driver and media display with touch controls are included as standard.

Advanced safety and assistance systems support drivers.

The EDITION ONE is an exclusive special model available at launch with an expanded palette of standard features.

¹ The specified values were determined in accordance with the prescribed WLTP (Worldwide harmonised Light vehicles Test Procedure) measurement method. The ranges given refer to ECE markets. The energy consumption and CO₂ emissions of a car depend not only on the efficient utilisation of the fuel or energy source by the car, but also on the driving style and other non-technical factors.

The GELÄNDEWAGEN. Electrified: All-new Mercedes-Benz G 580 with EQ Technology possesses uncompromising off-road capabilities

- The all-new electric G-Class: legendary design language meets unique drive technology
- Off-road capability enters the electric age and opens up unimagined possibilities
- MANUFAKTUR range offers almost limitless opportunities for customisation

Schlieren. With the all-new Mercedes-Benz G 580 with EQ Technology (energy consumption combined: 30.3-27.7 kWh/100 km | CO₂ emissions combined: 0 g/km | CO₂ class: A)², the brand with the three-pointed star presents the first fully electric variant of its off-road icon. It symbolises the fusion of tradition and progress like no other. The all-new electric G-Class remains true to the model's character, retaining its angular silhouette including all iconic elements. Like the conventionally powered variants, its body is built on a ladder frame. The development team has modified and reinforced this to integrate the electric drive. Also retained is the combination of independent front suspension with double wishbones and newly developed rigid rear axle. The high-voltage lithium-ion battery integrated into the ladder frame ensures a low centre of gravity. With its usable capacity of 116 kWh, it provides sufficient energy for ranges of up to 473 kilometres according to WLTP.²

“Throughout its more than 45-year history, the G-Class has always used the most modern drive technology available. So, it's entirely fitting that the innovative drive concept with four individually controlled electric motors once again raises the legendary performance of our off-road icon to a new level. It even retains that familiar angular silhouette and is true to the character of our beloved ‘Geländewagen’.”

Markus Schäfer, Member of the Board of Management of Mercedes-Benz Group AG, Chief Technology Officer

The all-new electric G-Class sets off-road standards

The four individually controlled electric motors located near the wheels develop a maximum total output of 432 kW. Together with the selectable LOW RANGE off-road gear reduction, they enable unique driving characteristics and exclusive functions. This allows G-TURN to turn the vehicle almost on the spot on loose or unpaved surfaces. The G-STEERING function can deliver a significantly smaller turning circle when driving off-road. The three-speed intelligent off-road crawl function is like cruise control for off-roading – maintaining optimum propulsion while the driver focuses on navigating the terrain.

Like the tried-and-tested variants, the all-new Mercedes-Benz G 580 with EQ Technology has a gradeability of up to 100% on suitable surfaces. The vehicle remains stable on sideways slopes of up to 35 degrees. With a maximum fording depth of 850 millimetres, the electric G-Class outperforms its conventionally powered counterparts by 150 millimetres. The LOW RANGE off-road gearing increases propulsion with a special reduction ratio. The all-new model generates the function of conventional differential locks virtually using intelligent torque vectoring. G-ROAR brings a unique sound experience to the all-new electric G-Class. In addition to a characteristic, G-Class-specific driving sound, it includes one “aura” sound and a variety of “event” sounds.

² The specified values were determined in accordance with the prescribed WLTP (Worldwide harmonised Light vehicles Test Procedure) measurement method. The ranges given refer to ECE markets. The energy consumption and CO₂ emissions of a car depend not only on the efficient utilisation of the fuel or energy source by the car, but also on the driving style and other non-technical factors.

The all-new G 580 with EQ Technology follows in the tradition of the design icon

The all-new electric G-Class is immediately recognisable as a member of the enduring family line. The exterior gets a striking electric look with an optional black-panel radiator grille. A number of distinguishing features set the all-electric variant apart from the conventionally powered models. These include a slightly raised bonnet and so-called air curtains in the rear wheel-arch flares as well as the design box on the rear. In combination with new A-pillar cladding and a spoiler lip on the roof, they contribute to optimised aerodynamics.

Extensive standard equipment, additional features and a digital off-road experience

The all-new Mercedes-Benz G 580 with EQ Technology is equipped with the MBUX infotainment system (Mercedes-Benz User Experience), a multifunction steering wheel in nappa leather and ambient lighting as standard. Optional extras include KEYLESS-GO, temperature-controlled cup holders, the Burmester® 3D surround sound system and the “transparent bonnet”. The redesigned off-road control unit and the new OFFROAD COCKPIT are available as options to enhance the off-road experience with additional digital functions. The EDITION ONE, a limited-edition model with an expanded palette of standard features and exclusive design elements, is available at launch.

The all-new Mercedes-Benz G 580 with EQ Technology will be available at launch starting at 142,621.50 euros³. Prices for the EDITION ONE start at 192,524.15 euros³.

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Further information on Mercedes-Benz in Switzerland is available [here](#). Press releases and digital services for journalists and multipliers can be found on our [Media Site Switzerland](#) or on the [Mercedes me media](#) online platform.

³ Sales price for Germany incl. 19% VAT, excl. delivery

The electric drive

- **Innovative individual-wheel drive concept with a total output of 432 kW and 1,164 Nm**
- **Virtual differential locks via torque vectoring instead of mechanical components**

With four individually controlled electric motors close to the wheels, the all-new electric G-Class offers unique driving characteristics both on and off road. It is the first mass-produced vehicle from the Mercedes-Benz Group with individual-wheel drive. The four motors are integrated in the ladder frame – two in each housing at the front and rear axles. They are driven via short half-shafts, meaning the rear electric motors can also be bolted to the chassis. Each of the electric motors develops a peak output of 108 kW, which adds up to a maximum total output of 432 kW. The maximum total torque is 1,164 Nm. In co-operation with ESP® and the central powertrain control (CPC), the torque is always delivered exactly where the all-new electric G-Class needs traction.

With its innovative drive concept, the all-new Mercedes-Benz G 580 with EQ Technology accelerates from 0 to 100 km/h in 4.7 seconds. The top speed is electronically limited to 180 km/h. As the electric motors can provide their maximum torque from a standstill, the all-electric off-roader excels with enormous pulling power and exceptional controllability. This proves advantageous both on steep inclines and loose surfaces.

Virtual instead of mechanical: the differential locks

The all-new electric G-Class uses torque vectoring to generate virtual differential locks. This technology makes it possible to precisely meter torque to each individual wheel. As the torque builds up exactly where needed within fractions of a second, the all-new electric G-Class holds a clean, confident line up and downhill, even on the toughest terrain.

The virtual differential locks enable fully variable distribution of the drive torque among the individual wheels. The result is maximum traction with maximum flexibility without distortion when cornering. The all-new electric G-Class thus remains agile and manoeuvrable at all times, including when the virtual differential lock is active. There is no need to manually engage the differential locks via switches in the off-road control unit. Control is fully automatic. This makes it even easier to use and increases driving safety, even in difficult conditions.

The battery

- Lithium-ion battery in the all-new G 580 with EQ Technology consists of twelve cell modules
- Specially developed underdrive guard meets highest requirements
- ECO Assistant and Navigation with Electric Intelligence support electric driving

It is the heart of every electric vehicle – the high-voltage battery. In the all-new electric G-Class, a two-tiered lithium-ion battery with 216 cells is installed in twelve cell modules between three cooling levels. The battery is integrated into the ladder frame made from steel up to four millimetres thick. This ensures a low centre of gravity and makes the entire vehicle significantly more rigid. To protect it from water and dirt intrusion, the battery is housed in a torsion-resistant casing. This means that the all-new electric G-Class is also ideally equipped for ambitious off-road missions. The usable capacity of the battery is 116 kWh. That gives the all-new Mercedes-Benz G 580 with EQ Technology sufficient energy for a range of up to 473 kilometres according to WLTP.

The charging components and functions

The all-new electric G-Class is capable of charging with both alternating current (AC) and direct current (DC). When charging with alternating current, for example at a wallbox, the on-board charger converts the current in the vehicle. It has a maximum charging capacity of up to 11 kW. For fast charging with direct current, a DC fast-charging system with a charging capacity of up to 200 kW is on board. In this case, the charging time from 10 to 80% SoC (State of Charge) is around 32 minutes.

The all-new electric G-Class has three charging programmes – “Standard,” “Work” or “Home”. Users can set parameters such as departure time, climate control and maximum charge level. The “Home” and “Work” charging programmes can be activated based on location. They switch on automatically as soon as the vehicle is parked at a stored charging location. Users are informed of this in MBUX.

Energy recovery during the journey via recuperation

The recuperative drive system in the all-new electric G-Class offers another way of generating energy. It converts the vehicle’s kinetic energy into electrical energy when coasting and braking. Depending on the recuperation level selected, the electric motors function as generators and charge the high-voltage battery while driving. Recuperation when coasting starts as soon as the driver lifts their foot off the accelerator pedal in drive setting “D” or “R”.

Using the steering wheel shift paddles, the level of recuperation can also be adjusted manually in the “D” transmission selection. The following recuperation levels are available:

- D^{Auto}: the vehicle automatically adjusts recuperation intensity according to traffic. The ECO Assistant indicates in the instrument display when the driver should take their foot off the pedal. The vehicle then selects the appropriate recuperation intensity.
- D⁺: no recuperation – the vehicle coasts and rolls freely.
- D: normal recuperation
- D⁻: strong recuperation with increased vehicle deceleration during coasting
- D⁻: maximum recuperation with maximum vehicle deceleration during coasting

Multi-stage high-voltage safety concept

Mercedes-Benz has developed a multi-stage high-voltage protection concept for its electric vehicles to prevent electric shocks and high-energy short circuits. It comprises eight essential elements for the safety of the battery and all components with a voltage level of more than 60 volts. This includes, for example, a self-monitoring high-voltage system that switches off automatically in the event of a serious collision.

Special underbody protection

Underbody protection is essential for every off-road vehicle. The all-new electric G-Class is no exception. In the event of a ground strike when driving off road, the battery must not suffer any physical harm. In addition, important components on the underside of the body must be protected from damage caused by stones, dust and sand. The focus during development of the skid plate was therefore on a high level of protection. The team also considered the effects on crash behaviour, aerodynamics and aeroacoustics during the development process.

The underbody protection on the all-new electric G-Class is made from an intelligent material mix that includes carbon. It increases rigidity compared to alternatives made from steel or aluminium. It also ensures long-lasting corrosion protection and saves weight. The underbody panel is 26 millimetres thick, weighs 57.6 kilograms and is attached to the ladder frame with more than 50 steel screws. A comparable steel component is around three times heavier. A one-millimetre layer of stone-chip protection is applied to the underside.

Support for electric driving: the ECO Assistant

The ECO Assistant analyses navigation data along the expected route. This means the system can help adapt the driving style economically to the route ahead by minimising energy consumption and maximising recuperation. It can recognise upcoming events – such as a roundabout, a sharp turn or a speed limit – as well as vehicles ahead. As the all-new electric G-Class approaches an event, the ECO Assistant calculates the optimum speed. If an adjustment in driving style is necessary, it displays a driver prompt to lift off the accelerator pedal. The ideal recuperation level is automatically selected to recover energy according to the situation.

Navigation with Electric Intelligence

Navigation with Electric Intelligence – the name says it all. This is because the system uses numerous factors to plan the fastest and most convenient route, including charging stops. To lay out the route, it calculates the energy required, taking into account topography, route, ambient temperature, speed as well as heating and cooling requirements. It also reacts dynamically to traffic jams or changes in driving style. Moreover, customers have the option of customising the planned route.

Navigation with Electric Intelligence also considers the available charging stations, their charging capacity and payment functions and calculates the estimated cost of a charging stop. The charging stops are planned to optimise the overall journey time: under certain circumstances, two short charging stops at a higher charging power can be better than one long charge. Navigation with Electric Intelligence automatically adjusts the vehicle's charging settings and optimises them for fast charging along the route. Customers can add favourite charging stations or exclude suggested charging stations. MBUX also indicates whether the available battery capacity is sufficient to return to the point of origin without charging.

If there is a risk of not reaching the destination or a charging station with the selected settings, the active range monitoring function recommends activation of ECO driving functions. It also calculates the exact driving speed required to reach the next charging station or destination as planned. Under the "Range" menu item, drivers can increase the range by switching off various energy consumers. Here, too, they can activate the ECO driving functions to support a more efficient driving style.

Suspension and transmission

- **Modified ladder-frame concept and newly developed rigid rear axle**
- **ELECTRIC DYNAMIC SELECT: driving programmes for various driving situations**
- **Shiftable transmission: with LOW RANGE off-road gear reduction**

The all-new electric G-Class brings the off-road qualities of the G-Class into the era of electric mobility. In some aspects, the electric version even surpasses the conventionally powered models – in fording depth, for example. The ladder frame has been modified and reinforced for the electric model, retaining the combination of double-wishbone independent front suspension and rigid rear axle. The rear axle is a De Dion design and has been completely redeveloped. The electric motors are attached to the ladder frame and connected to the wheels via dual-joint shafts. The advantage of this is that the camber does not change during compression. Double-universal-joint driveshafts transmit the propulsion and incorporate sliding joints to equalise the length. The following off-road qualities speak for themselves:

- Up to 100% gradeability on suitable surfaces
- Ground clearance between the axles of at least 250 mm
- Maximum fording depth of 850 mm for water and mud
- Stable driving on sideward slopes of up to 35°
- Approach angle of 32° and departure angle of 30.7°
- Breakover angle of 20.3°

The all-new electric G-Class is equipped as standard with the same adaptive adjustable damping used in the conventionally powered variants. The active dampers compensate for uneven ground better than passive dampers. This ensures even more off-road confidence. With roll and pitch stabilisation, the system continuously regulates the damper characteristics depending on the driving situation and reduces body movements. The components of the adaptive adjustable damping system are designed to withstand extreme conditions such as surging water, fording, stone chipping and dirt.

ELECTRIC DYNAMIC SELECT: additional driving programme to increase efficiency

The vehicle characteristics of the all-new electric G-Class can be adjusted at the touch of a button. ELECTRIC DYNAMIC SELECT changes the parameters of the motors, transmission, suspension, ESP® and steering as required. Drivers can choose between “Comfort”, “Sport” and “Individual” on-road driving programmes. The “Comfort” programme is the standard setting, whereby propulsion flows primarily to just one axle for optimum energy consumption. The “Trail” and “Rock” off-road driving programmes are also available – selected conveniently via the ELECTRIC DYNAMIC SELECT switch.

LOW RANGE: the off-road gear reduction of the all-new electric G-Class

The all-new Mercedes-Benz G 580 with EQ Technology has a switchable LOW RANGE off-road gear reduction. Each motor close to the wheel has its own transmission, which is shifted centrally. This ensures the independence of the motors. At each axle are two electric motors, their gearboxes and a double inverter in a shared housing. This configuration facilitates an off-road reduction ratio that equips the electric off-roader for use on difficult terrain. It ensures maximum torque and smooth temperature management. The HIGH RANGE on-road setting is also available, guaranteeing maximum range.

In the “Rock” driving programme, drivers can activate the LOW RANGE off-road gear reduction via a switch in the off-road control unit. This activates a reduction ratio (2:1), which increases the drive torque. Handling and response characteristics are then optimised for powerful excursions on unsurfaced, difficult terrain with steep inclines and declines. Top speed is restricted to 85 km/h. The intelligent off-road crawl function is switched on automatically and always active.

Exclusive off-road functions, unique sound experience and digital off-road experience

- **G-TURN, G-STEERING and intelligent off-road crawl function: the advanced drive concept and shiftable transmissions enable unique driving characteristics**
- **G-ROAR: the sound experience for the all-new electric G-Class**
- **New OFFROAD COCKPIT and “transparent bonnet” function for a digital off-road experience**

The off-road capabilities of the G-Class have always set the highest standards. This also applies to the all-new electric G-Class. Its innovative drive concept enables exclusive functions for driving off the beaten track.

Exclusively for the all-new electric G-Class: G-TURN, G-STEERING and intelligent off-road crawl function

With the G-TURN⁴, drivers can turn the all-new electric G-Class almost on the spot. The vehicle performs up to two complete vehicle turns in the desired direction on unpaved or loose surfaces. This not only looks spectacular but can also be helpful when driving off-road – for example, if an obstacle ahead makes it impossible to continue forward. The four independently driven wheels can rotate the vehicle to the left or right as required. To do this, the wheels on the right and left sides of the vehicle turn in opposite directions. To start the function, the vehicle must be stationary on a level surface with the doors closed, the front wheels in the straight-ahead position and the brake pedal depressed. In addition, the “D” transmission setting must be engaged, the “Rock” driving programme selected and the LOW RANGE off-road gear reduction switched on. Only then can drivers activate the function using the corresponding button on the off-road control unit. They can select the desired direction of rotation by pulling and holding the left or right steering wheel shift paddle. To start the G-TURN, they must then hold the steering wheel, release the brake pedal and press the accelerator pedal. After two complete vehicle revolutions, G-TURN is automatically cancelled. Drivers can also cancel the function manually at any time by releasing the steering wheel shift paddle or the accelerator pedal.

G-STEERING can significantly reduce the turning circle of the all-new electric G-Class when driving off-road or on loose surfaces.⁴ This is achieved through targeted control of the drive torque at the individual driven wheels, with the vehicle turning around the inside rear wheel. The function can thus eliminate the need for multi-point turns in certain situations – for example in bends or other tight spaces. Drivers can activate G-STEERING by pressing the corresponding button on the off-road control unit when the “D” transmission setting is engaged, the “Rock” drive programme is selected and LOW RANGE off-road gear reduction is switched on. This function is active up to a speed of 25 km/h.

The intelligent off-road crawl function⁵ provides drivers of the all-new electric G-Class with additional support when driving off-road. It ensures ideal propulsion even on loose surfaces, maintaining a pre-set speed – and thus functions as a kind of cruise control for off-road driving. This allows drivers to concentrate fully on the optimum driving line and any obstacles without having to simultaneously balance the brake and accelerator. However, the function can always be overridden with the brake or accelerator pedal if desired.

⁴ It is not permissible to use G-TURN and G-STEERING on public roads. Use G-TURN and G-STEERING only on loose or soft surfaces, e.g. gravel or snow.

⁵ The intelligent off-road crawl function is only an aid. The driver is responsible for maintaining a sufficient distance from the vehicle in front or from obstacles.

The intelligent off-road crawl function is always active when the LOW RANGE off-road gear reduction is engaged. Drivers can select the target speed in three levels using the steering wheel shift paddles. The current status is shown on the driver display. The following crawl speeds are available:

- Slow crawl: the vehicle maintains a speed of around 2 km/h uphill, on the level or downhill.
- Variable crawl: the vehicle maintains walking speed uphill and on the level. On downhill gradients of 10 to 20%, drivers can use the accelerator pedal to increase the target speed to around 14 km/h and use the brake pedal to again reduce it to walking speed. The vehicle maintains the current target speed by releasing the accelerator or brake pedal.
- Fast crawl: the vehicle maintains a speed of around 8 km/h uphill and on the level. Downhill, the intelligent off-road crawl function slows the vehicle down via recuperation depending on the gradient. This can increase the vehicle speed, as no final speed is specified.

G-ROAR: this is what the all-new electric G-Class sounds like

G-ROAR brings a unique sound experience to the all-new electric G-Class. The characteristic driving sound is inspired by the model family's emotional V8 sounds. It provides an impressive acoustic accompaniment to the acceleration of the all-new electric G-Class. Its deep bass and sonorous tones deliberately set it apart from the sound of other all-electric models from the brand with the three-pointed star. Drivers can influence the sound with their choice of driving programme. While it's rather restrained in "Comfort", for example, it develops a powerful and emotional sound in "Sport".

G-ROAR also includes an "aura" and a variety of "event" sounds. The "aura" sound can already be heard around the vehicle when drivers approach the all-new electric G-Class and unlock the doors. The "event" sounds can be heard when closing the vehicle door after getting in, switching the motors on and off and upon opening the door at the end of a journey. After leaving the vehicle, the "aura" sound can be heard again – for up to one minute, or until the vehicle is locked. G-ROAR also provides acoustic accompaniment to the start of the charging process.

Everything at a glance: the new OFFROAD COCKPIT

Drivers can access the new OFFROAD COCKPIT directly via the off-road control unit. Both the driver and media displays provide an overview of the most important relevant data for off-road driving as well as functions to support off-road driving. The content is displayed in various tiles, which can be changed using direction arrows. There are also buttons for quick access to certain vehicle functions that are important for off-road driving. These include the artificial horizon, compass, altitude, steering angle and torque as well as tyre pressure and temperature.

For an even more comfortable off-road driving experience: the "transparent bonnet"

In conjunction with the 360° camera, the "transparent bonnet" function enables a virtual view under the front of the vehicle. For the view of the "transparent bonnet" in the media display, the all-new electric G-Class combines the images from the front camera and both exterior mirror cameras. A visualisation of the lane then helps to select the optimum route. This enables drivers of the all-new electric G-Class to react in good time if necessary – for example, when encountering obstacles such as rubble or boulders. The function also helps to better assess crests, embankments and hollows if they are no longer visible through the windscreen because the angle is too steep. The function can be conveniently activated via a button on the off-road control unit or via the off-road menu in the central display.

Design and equipment

- **Iconic and timeless design:** electric model remains true to the character of the original
- **Distinct design elements** have a positive effect on aerodynamics and acoustic comfort
- **EDITION ONE:** special model with expanded standard equipment available at launch

The all-new electric G-Class follows the design tradition of the model series with its angular silhouette. Familiar details such as the distinctive door handles and indicators mounted on the wings continue to characterise its style. The all-new electric G-Class combines the unmistakable look of the off-road vehicle icon with selected design elements typical of electric vehicles.

Even the front view of the all-new Mercedes-Benz G 580 with EQ Technology looks familiar, partly due to the classic round headlights. The radiator grille has four horizontal louvres. The radiator grille panel and exterior mirror housings are finished in body colour as standard. The all-new electric G-Class gets a particularly distinctive look with the optional black-panel radiator grille. It has tinted lighting units as well as an animated LED light band and chrome surround. As an elegant optional accent, the LED light band can be activated as a running light. When locking and unlocking the vehicle, “Welcome home” and “Leaving home” animations create an impressive look. When the front doors are open, the standard ambient lighting projects the brand logo onto the floor at the entry points.

The exterior: distinctive design elements contribute to optimised aerodynamics

A slightly raised bonnet and so-called “air curtains” in the rear wheel-arch flares are among the other design elements that characterise the all-electric model. Together with a new A-pillar cladding and a spoiler lip on the roof, they contribute to optimised aerodynamics. In combination with new insulation materials, acoustic comfort has also been improved. The all-new electric G-Class rolls on aerodynamically optimised 18-inch alloy wheels with a five-twin-spoke design as standard. They are painted in high-gloss black and have a polished finish.

Adaptive MULTIBEAM LED headlights are also included as standard. Thanks to intelligent lighting functions, they illuminate the road according to the situation. They react to the current traffic situation with the help of 84 individually controlled high-performance LEDs. Heat-insulating dark-tinted glass is used on the rear side windows and the rear window. Silver EQ badges on the wings indicate that the vehicle is fully electric.

Another unique selling point of the all-new electric G-Class is the optional rectangular design box on the rear door. Items such as charging cables, tools or snow chains can be easily stowed in it. Inside are a Velcro strap and two luggage nets (one in the door and one in the box itself). Alternatively, customers can opt for the familiar spare wheel with cover. The all-new electric G-Class comes with a designer cover as standard.

The interior: typical G-Class design; extensive standard equipment

The interior of the all-new electric G-Class combines impressive quality with a classic design language. Square-edged air vents and the passenger grab handle bear the typical G-Class signature. The trim elements are finished in open-pore natural walnut wood as standard. The multifunction steering wheel of the current generation with touch control panels is covered in nappa leather as standard. Ambient lighting and leather upholstery are also part of the standard equipment.

MBUX infotainment system: intuitive operation, adaptive software and dialogue-capable voice assistant

The all-new electric G-Class is equipped with the MBUX infotainment system including a 12.3-inch driver and media display with touch controls as standard. The display and operating concept uses adaptive software to make personalised suggestions for numerous infotainment, comfort and vehicle functions. Smartphone integration via Android Auto® or Apple CarPlay™ enables occupants to make optimum use of their mobile phone functions. They also enjoy the benefits of digital radio (DAB+) with MBUX. USB-C interfaces enable connections to other mobile devices.

The voice assistant capable of dialogue and learning is also available with MBUX. Certain actions can now be triggered without saying “Hey Mercedes”. The voice assistant also has around 20 G-Class specific voice commands. MBUX Augmented Reality for Navigation can help drivers find their way even in complex traffic situations. This enables them to reach their destination quickly, safely and stress-free. To do this, the system superimposes graphic navigation and traffic information onto live images on the media display. It also provides support at traffic lights by displaying the current traffic light colour, helping drivers to see the signal when visibility is limited.

Optional features for added convenience

Additional optional features further enhance comfort and convenience. These include temperature-controlled cupholders and a wireless charging system for mobile devices. MBUX high-end rear-seat entertainment is also available. With two fully integrated 11.6-inch touch displays, passengers in the rear seats can also enjoy in-car entertainment during the journey. The connection to the MBUX infotainment system allows them to watch movies, surf the internet and access an assortment of trip information. If required, the content can be moved interactively from the displays in the second seat row to the media display up front. They can also integrate their own media via various interfaces.

With KEYLESS-GO, the passenger doors and the rear door of the all-new electric G-Class can be unlocked and locked simply by touching the door handle. There is no need to hold the vehicle key for this – it can remain in a pocket or bag. The vehicle can also be started conveniently at the touch of a button. Drivers only need to have their key with them inside the vehicle. A dashcam⁶ is optionally available. It can film the traffic in front of the vehicle and record the time and speed of travel. This allows drivers to document the course of an accident, for example, or capture scenic routes and landscapes. They can view the video material either on their computer at home or on the media display in the stationary vehicle.

The optional Burmester® 3D surround-sound system includes the immersive Dolby Atmos® audio experience. It gives music more space, clarity and depth and transforms the new electric G-Class into a concert hall on wheels. An additional, illuminated loudspeaker is integrated into the headliner. Six additional amplifier channels are available, audibly enabling better frequency separation and sound positioning.

Individualisation: equipment lines for interior and exterior

The all-new electric G-Class gets a decidedly sporty touch in combination with the optional AMG Line. Among other things, its dynamic appearance is characterised by wheel-arch flares, 20-inch AMG 10-spoke alloy wheels, running boards, brake callipers with “Mercedes-Benz” lettering and illuminated door sill trims in stainless steel. Inside, the flattened multifunction sports steering wheel in nappa leather with touch controls as well as steering-wheel trim and steering-wheel shift paddles in silver chrome enhance driving pleasure.

⁶ When using the dashcam and saving video material, please observe the data protection regulations. The use of the dashcam may not be permitted in certain countries.

The Night Package further enhances the exterior with sporty and expressive design elements. Among other things, it includes tinted lighting units and black aerodynamically optimised wheels. Depending on the paint finish selected, exterior mirror housings in obsidian black or night black magno also add to the appearance. Optional MANUFAKTUR Black Accents complete the customised look. The Night Package II adds further details in high-gloss black to the aforementioned features. These include the Mercedes stars at the front and rear, the model badge at the rear and the EQ badge on the fenders.

The optional EXCLUSIVE Line Interior enhances the feeling of wellbeing in the interior. Among other things, it includes seat upholstery in nappa leather and ambient lighting for the air vents. There is also colour-coordinated contrasting stitching for the seats, instrument panel, grab handle, door panel inserts and rear door panel insert. It includes the Burmester® 3D surround sound system, too. The SUPERIOR Line Interior offers additional features in nappa leather, elements in diamond design and the Active Multicontour Seat Plus package, including massage and performance handling function.

Extensive MANUFAKTUR range expanded once again

With the MANUFAKTUR range, owners can personalise their G-Class even further. Whether paint selection, spare wheel ring, seat graphics, decorative stitching or instrument panel – with more than a million possible combinations of colours, contrasts and materials, it leaves nothing to be desired. The two-tone leather interior in MANUFAKTUR Catalan beige/black is available for the first time. In addition, a grab handle with “MANUFAKTUR” lettering and trim element is available in combination with MANUFAKTUR leather. The MANUFAKTUR full leather package is also available for the all-new electric G-Class. Almost the entire interior is then covered in nappa leather – from the headliner to the cladding of the A, B, C and D pillars through to the seat backrest trim. The headliner also has a centre panel in the trim colour with a diamond design.

EDITION ONE: special model at launch

From the launch of the all-new electric G-Class, the EDITION ONE will be available at a price starting from 192,524.15 euros⁷. The exclusive special edition is available in five paint finishes: MANUFAKTUR south sea blue magno, obsidian black metallic, MANUFAKTUR opalite white magno, MANUFAKTUR opalite white bright and MANUFAKTUR classic grey solid. The outer protective moulding has an insert with a blue trim strip. The brake callipers are also in blue and feature Mercedes-Benz lettering at the front. The design box on the rear door is finished in body colour and black. Customers can choose the spare wheel at the rear as an option for the EDITION ONE. In this special edition, the exterior mirror projection shines the “Stronger Than Time” lettering onto the tarmac. EDITION ONE is equipped with the radiator grille with four horizontal louvres as standard. The black-panel radiator grille is available as an option.

The features of the AMG Line and the Night Package are included as standard in the EDITION ONE. These include high-gloss black painted and aerodynamically optimised 20-inch AMG 10-spoke alloy wheels and tinted lighting units. The door handle buttons with the G logo and the exterior mirror housings are finished in black. The running boards come in silver as standard and are optionally available in black. The interior is upholstered in nappa leather in the new silver pearl/black colour combination. The multifunction sports steering wheel in a three-twin-spoke design with touch control panels is covered in nappa leather. The blue details of the exterior are reflected in the interior of the EDITION ONE in the form of blue carbon-fibre trim elements and blue stitching.

The Comfort package including temperature-controlled cup holders and KEYLESS-GO, the Active Multicontour Seat Plus package, a sunroof, the Burmester® 3D surround sound system and the G-ROAR sound experience are also included in the standard equipment of the EDITION ONE.

⁷ Sales price for Germany incl. 19% VAT, excl. delivery

Exclusive vehicle handover at the birthplace of the G-Class

Since 2023, G-Class customers have been able to experience an unforgettable day at the G-Class Experience Centre in Graz when they collect their vehicles from the factory. Pure driving pleasure awaits them at a 100,000-square-metre site on a former air base. They can test the versatility of the off-road icon on the on- and off-road courses with specially provided vehicles. The supporting programme also includes a tour of production at MAGNA Steyr with fascinating insights into the production process. The highlight is the vehicle handover: the new G-Class is presented in a glass cube. This is followed by a detailed vehicle briefing. The event package for two also includes an exclusive dinner, an overnight stay in a hotel in the centre of Graz with breakfast and a personal shuttle service. Those wishing to book G-Class factory delivery should contact their authorised Mercedes-Benz sales partner.

The driver assistance systems

- Extensive standard equipment
- Numerous advanced driver assistance systems for maximum safety and relaxed driving

The all-new electric G-Class already has numerous latest-generation advanced assistance and safety systems⁸ on board as standard. They use numerous sensors, cameras and radar to monitor the traffic and vehicle surroundings. This allows them to noticeably relieve the driver in many everyday situations.

- **Active Distance Assist DISTRONIC** helps the driver to maintain a safe distance, among other things. The system automatically adapts the speed to slower vehicles in front. The desired target distance can be set in several levels. Other functions include reacting to stationary vehicles, automatic restart and automatic speed takeover. This support is particularly beneficial to drivers in flowing and slow-moving traffic. In combination with **route-based speed adjustment**, the system can automatically reduce speed before bends, junctions, roundabouts, toll stations and exits and then accelerate again.
- **Active Steering Assist** uses moderate steering interventions to help drivers follow the lane at speeds of up to 160 km/h. This is a major stress reliever, especially on monotonous routes.
- **Active Brake Assist** uses the sensors installed in the vehicle to register a risk of collision with vehicles travelling in front or crossing. In the event of an imminent collision, the system can visually and acoustically warn the driver. If braking is too weak, it can also provide support by increasing the braking force accordingly and initiate autonomous emergency braking if there is no reaction.
- **Active Emergency Stop Assist** brakes the vehicle to a standstill in its own lane if it recognises that the driver is no longer actively driving for a prolonged period. In addition, a brief electric tensioning of the seatbelt by PRE-SAFE[®] and a brief brake jolt serve as final warnings before the brakes are applied.
- **Active Lane Keeping Assist** helps drivers to stay in the correct lane. Using a camera, it recognises when the vehicle drives over lane markings and road edges. In this way, the system can help ensure drivers don't unintentionally leave their lane. If there is a risk of collision with recognised road users in the adjacent lane, for example overtaking or oncoming vehicles, the system can also react with steering intervention and warnings.
- **Active Blind Spot Assist** can give a visual warning of side collisions at a speed of around 10 km/h and also an audible warning when the indicator is activated. In addition, the **exit warning function** can signal prior to exiting that a vehicle (including bicycles) is passing in the critical area when the vehicle is stationary.
- **ATTENTION ASSIST** can recognise typical signs of driver fatigue and inattention. The system can thus contribute to road safety, particularly on night journeys and long journeys. As soon as it recognises typical signs of fatigue, it switches on visual and acoustic warning signals and prompts the driver to take a break.

⁸ The Mercedes-Benz driver assistance and safety systems are aids and do not relieve the driver of their responsibility. The instructions in the Owner's Manual and the system limits described there should be observed.

- The **Parking Package with 360° camera** provides support when parking and manoeuvring the electric G-Class. The virtual overhead view of the 360° camera shows the current vehicle position on the media display. In combination with the visual and acoustic cues of the **Active Parking Assist with PARKTRONIC**, drivers stay in control even in confusing situations. The system can actively assist with reverse parking as well as recognise suitable parking spaces at a speed of up to 35 km/h.
- The **PRE-SAFE®** preventive occupant protection system can recognise critical driving situations at an early stage and initiate protective measures as a precaution. These include, for example, reversible belt tensioning or the automatic closing of open side windows or the sliding glass roof. Depending on the equipment, the electrically adjustable front passenger seat can also move into a more favourable position in the event of a crash.
- **PRE-SAFE® Sound** can prepare the occupants' ears for the stress caused by the noise generated in an accident. In the event of an imminently dangerous situation, a special sound chip generates a noise via the loudspeakers. In many cases, the noise triggers a natural protective reflex – the tiny stapedius muscle in the ear contracts briefly and dampens the connection between the eardrum and the inner ear.
- The **Traffic Sign Assist** keeps an eye on the applicable speed regulations and reminds you of them. In addition to conventionally signposted speed limits, the system also recognises gantry signs and roadworks signs.

Technical data

Mercedes-Benz G 580 with EQ Technology

Drive system and battery		
Drive		All-wheel drive
E-motors	Type	Permanently excited synchronous machine (two-speed)
Output (peak)	kW	432
Torque (peak)	Nm	1,164
Battery type		Lithium-ion
Max. recuperation capacity	kW	217
Max. AC charging capacity (onboard charger series/option)	kW	11
AC charging time ⁹ , three-phase (11 kW)	h	11.77 (WEU + Coc) 13.56 (USA)
Max. DC charging capacity	kW	200
DC charging time ¹⁰ at fast charging station	min	32
DC charging ¹¹ : range after 15 minutes (WLTP)	km	170
Suspension		
Front axle		Independent suspension with double wishbones
Rear axle		Rigid De-Dion axle
Brake system		Hydraulic dual circuit
Steering		Electro-mechanical
Wheels		7.5J18ET43
Tyres		265/60R18
Dimensions and weights		
Wheelbase	mm	2,890
Track width front/rear	mm	1,638 / 1,637
Length/width/height	mm	4,624/1,931 ¹² /1,986
Turning circle	m	13.6
Boot volume	litres	555/1,990
Kerb weight according to EC	kg	3,085
Payload	kg	415
Gross vehicle weight	kg	3,500
Performance; fuel consumption; emissions		
Acceleration 0-100 km/h	seconds	4.7
Maximum speed ¹³	km/h	180
Energy consumption combined ¹⁴	kWh/100 km	30.3-27.7
CO ₂ emissions combined	g/km	0
Range ¹⁴	km	434-473
CO ₂ class		A

⁹ The charging times correspond to 10-100% full charge when using a wallbox or public charging station (AC connection with at least 11/22 kW; 16/32 A per phase) at 23 degrees Celsius.

¹⁰ The charging times correspond to 10-80 % charge when using a DC fast-charging station of category "K" or "L" according to EN17186 with 500 A charging current

¹¹ At DC fast-charging stations with 500 amps based on the WLTP range

¹² Without exterior mirrors

¹³ Electronically regulated

¹⁴ The specified values were determined in accordance with the prescribed WLTP (Worldwide harmonised Light vehicles Test Procedure) measurement method. The ranges given refer to ECE markets. The energy consumption and CO₂ emissions of a car depend not only on the efficient utilisation of the fuel or energy source by the car, but also on the driving style and other non-technical factors.