



Press Information
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The most versatile electric model from Affalterbach: the Mercedes-AMG EQE SUV

- First all-electric performance SUV from Mercedes-AMG
- Two powerful electric motors with up to 677 hp total output
- AMG Performance 4MATIC+ fully variable all-wheel drive, AMG air suspension, rear-axle steering and AMG-specific roll stabilization equipped standard
- Expressive AMG exterior and sporty, luxurious interior featuring Dolby Atmos® sound format

Affalterbach. With its variable interior and performance-oriented drive concept, the Mercedes-AMG EQE SUV is the most versatile electric vehicle in the Mercedes-AMG portfolio. The all-rounder also offers generous space for passengers and luggage. Two powerful electric motors and fully variable all-wheel drive form the basis for the dynamic driving experience characteristic of AMG. The Mercedes-AMG development team also designed many parameters independently. These include the AMG RIDE CONTROL+ air suspension with Adaptive Damping System and rear-axle steering. The AMG EQE SUV also exclusively features AMG ACTIVE RIDE CONTROL – an AMG-specific roll stabilization system. Added to this are the AMG SOUND EXPERIENCE.

"At Mercedes-AMG, everything revolves around the extra performance and emotion that our customers seek and find with us. And these core characteristics of the brand naturally also apply to our all-electric models. We continue to focus our portfolio on electromobility. With the EQE, EQS and now the EQE SUV, we already have three very desirable offerings in the range. They stand for top performance, driving pleasure and dynamics. The AMG EQE SUV is another important step towards electric mobility at AMG."

Michael Schiebe, CEO of Mercedes-AMG GmbH and head of business units the Mercedes-Benz G-Class & Mercedes-Maybach

Exterior design with characteristic AMG features

The exterior design is characterized by generously modeled surfaces, reduced joints and seamless transitions. Dynamic proportions emphasize the sporty character with a number of AMG-specific features. These include the AMG black panel radiator grille with hot-stamped vertical struts in chrome, integrated Mercedes star and "AMG" lettering. A new feature is the brand-specific badge on the hood with the AMG emblem instead of the Mercedes star. The front-end also features an AMG-specific front fascia, painted in body color with the A-wing in high-gloss black and chrome trim. The front splitter, as well as the flics and fins on the aesthetic air inlets, are also accented with gloss black and chrome trim. The air diffusers in high-gloss black on the left and right induce the AIR CURTAIN effect, which guides the air around the front wheels to optimize aerodynamics. The standard DIGITAL LIGHT headlamps feature an AMG-specific projection when opening and closing the vehicle.

AMG-specific wheel arch claddings in body color, seamlessly integrated door handles, and aerodynamically optimized 21 or 22-inch AMG alloy wheels add further visual accents. The rear fascia in body color with the aerodynamically optimized diffuser and longitudinal fins along with taillights in a helix design also emphasize the vehicle's dynamic appearance.

Interior design with a particularly sporty touch

The interior is also dominated by style-defining AMG features, including seats with individual patterns and special upholstery in MB-Tex with microfiber and red topstitching. Alternatively, Nappa leather seat upholstery is also available standard, also with AMG-specific seat patterns. The AMG badge on the front-seat backrests and the embossed AMG emblems on the front headrests emphasize the brand image. Additionally, there are numerous other features that underline the distinctive style of the interior:

- Instrument panel and beltlines in Space Grey MB-Tex with red topstitching
- Door center panels as well as the transition from center console to instrument panel in black microfiber with red topstitching
- AMG Performance steering wheel in Nappa leather with flattened bottom, perforated grip area, silver aluminum paddles for adjusting various recuperation levels, and steering wheel controls for individual vehicle-specific settings
- AMG sport pedals, AMG floor mats, and illuminated door sill panels with "AMG" lettering

The AMG Performance steering wheel with its striking twin-spoke design and seamlessly integrated buttons combines visual stability with lightness. The standard AMG steering wheel controls impress with brilliant displays. This allows important driving functions and the drive programs to be controlled without the driver's hands leaving the steering wheel. Numerous parameters can be selected directly. The menus on the left steering wheel button can be individually supplemented, exchanged or reduced. For this, there is a list in the multimedia display with more than 15 information and setting options as direct selection for the steering wheel buttons.

Hyperscreen with AMG-specific functions and displays for the MBUX infotainment system

The Hyperscreen is comprised of a large, curved screen unit extending from A-pillar to A-pillar. Three screens sit under a single glass cover and visually merge into one. With adaptive software, MBUX adapts to the driver and offers personalized suggestions for numerous infotainment, comfort and vehicle functions. With the zero layer, the most important applications are always displayed situationally and contextually on the top level in the field of vision.

MBUX offers a range of additional AMG functions that emphasize the performance character. This is especially true for the stand-alone displays in the instrument cluster, as well as the multimedia display and the head-up display. Quick access to the AMG DYNAMIC SELECT drive programs is provided by the corresponding direct-entry button in the center console.

The Dolby Atmos® sound format takes the audio experience in the AMG EQE SUV to a new level. Individual instruments or voices in the studio mix can be positioned all around the listening area. With this, a new kind of sound animation becomes possible. While conventional stereo systems usually have left-right dynamics, Dolby Atmos® utilizes the entire range to create a 360-degree experience.

Performance-oriented drive concept with two electric motors

The new Mercedes-AMG EQE SUV offers a performance-oriented drive concept with two electric motors. The powerful electric powertrain (eATS) with a motor at the front and rear axle features fully variable AMG Performance 4MATIC+ all-wheel drive, which optimally transmits the drive power to the road in all driving conditions. Output ranges from 617 hp to 677 hp when using RACE START with Boost function.

The AMG-specific electric motors at the front and rear axles are permanently excited synchronous motors (PSM). The decided emphasis on performance is already evident in the output and torque values. In addition, the electric motors are characterized by an optimal balance of power increase, efficiency and noise comfort. The electric motors utilize adapted windings, different laminations, higher currents, and adapted inverters, which allow higher motor speeds.

The electric motor on the rear axle is particularly powerful thanks to its six-phase design, based on two windings with three phases each. The stator with pull-in winding ensures a strong magnetic field.

Added to this is the highly resilient thermal concept, which allows repeated acceleration maneuvers with consistently high performance. The centerpiece of the sophisticated design is the water lance in the shaft of the rotor, which provides cooling. Other AMG-specific elements in the cooling circuit include special ribs on the stator and the needle-shaped pin-fin structure on the inverter, which is made of high-performance ceramics. There is also the transmission-oil heat exchanger, which in addition to cooling, preheats the oil during cold starts to further increase efficiency.

AMG Performance 4MATIC+ fully variable all-wheel drive

Power from the dual electric motors is transferred to the road by the standard-fit AMG Performance 4MATIC+ fully variable all-wheel drive. The system continuously distributes drive torque between the front and rear axles depending on the driving situation. Torque is checked 160 times per second and adjusted if necessary. The torque distribution depends on the selected drive program. In the "Comfort" program the focus is on maximum efficiency, while in "Sport" and "Sport+" torque is more rear-biased for greater lateral dynamics.

AMG RIDE CONTROL+ suspension with Adaptive Damping System

AMG RIDE CONTROL+ with air suspension and an Adaptive Damping System is based on a four-link front axle suspension and a multi-link rear suspension, each optimized with AMG-specific wheel carriers, suspension links, and anti-roll bars with greater rigidity. The rear axle carrier is connected to the bodyshell with 50 percent stiffer bearings and reduced bearing clearance to create even more direct road contact. The AMG development team has specifically tuned all components to meet the special requirements of AMG customers, including ride comfort and driving dynamics.

The Adaptive Damping System uses two pressure limiting valves. These continuously-variable control valves located outside the damper allow the damping force to be adjusted even more precisely to different driving conditions and drive programs. One valve controls the rebound phase, i.e. the force generated when the wheel rebounds, and the other controls the compression phase when the wheel compresses. The rebound and compression phases are controlled independently of each other. This technology makes it possible to increase comfort while also enhancing driving dynamics.

The suspension control unit analyzes data – including from acceleration and wheel path sensors – to adjust the damping force for each wheel in a few milliseconds to best suit the situation. The AMG development team was able to significantly increase the spread between sportiness and comfort, among other things, by widening the

spread between minimum and maximum damping force characteristics, as well as even greater flexibility in characteristic mapping. By using the two adjustment valves, the damper is able to provide damping force adjustment across the full range of wheel vibrations. Thanks to the special valve design, the damper reacts quickly and sensitively to changing road surfaces and driving conditions.

Intelligent driving level control enables better aerodynamics and lower power consumption. In the S and S+ drive programs, the Mercedes-AMG EQE SUV adopts the low suspension level from 0 mph (-0.6 in). In drive program C, speed-dependent control takes place with lowering from 75 mph and raising from 50 mph.

MICHELIN Pilot Sport EV MO1 tires, which are specifically adapted to the requirements of the all-electric AMG Performance vehicles, also contribute to the vehicle's dynamic character. Available for both 21- and 22-inch wheels, the tires feature low rolling resistance combined with exceptional levels of grip on wet and dry roads.

Standard-fit active rear-axle steering

The Mercedes-AMG EQE SUV is equipped with active rear-axle steering as standard. The steering angle of up to 9.0 degrees enhances handling and allows a turning radius of 35.8 ft. The interaction between front-axle and rear-axle steering is designed to achieve agile response with little steering effort. At speeds below 37 mph, the rear wheels steer in the opposite direction to the front wheels. As a result, the AMG EQE SUV is agile, light-footed and nimble. The effect is particularly positive when making a turn, changing direction quickly, or during low speed maneuvers. At speeds above 37 mph, the rear wheels steer in the same direction as the front wheels. The resulting virtually extended wheelbase offers increased handling stability and driving safety at highway speeds as well as during fast lane changes or sudden evasive maneuvers.

AMG ACTIVE RIDE CONTROL: electromechanical active roll stabilization

In place of conventional anti-roll bars, the active roll stabilization in the AMG EQE SUV compensates body movements electromechanically. For this purpose, the anti-roll bars on the front and rear axles are divided into two parts. In the center is an electromechanical actuator integrated with a three-stage planetary gear. If the road surface is uneven, the actuator actively separates the stabilizer halves, which increases ride comfort. During dynamic driving, the halves join together and are twisted against each other. This significantly reduces rolling movements. In order to meet the high performance requirements of Mercedes-AMG, the system is based on an additional 48-volt auxiliary power system. The AMG development team redesigned the rear section of the vehicle to accommodate the roll stabilization system.

Advantages of the electromechanical roll stabilization include:

- Greater spread between comfort and sport than with a mechanical solution
- Precisely compensates for body movements. Even in sporty situations near the limits, handling remains precise, controllable and direct
- Reduces rolling movements when cornering and allows more precise tuning of cornering and load change characteristics
- Increased ride comfort when driving in a straight line as excitations due to one-sided road imperfections are balanced out
- Significantly faster response and lower component weight than hydraulic systems

For an individual driving experience: AMG DYNAMIC SELECT drive programs

The driving characteristics can be changed by the driver at the touch of a button for a tailored driving experience. This is made possible by the five AMG DYNAMIC SELECT drive programs "Slippery," "Comfort," "Sport," "Sport+" and "Individual." The drive programs cover a wide spectrum, from high comfort to pronounced sportiness. Important parameters such as drive and performance characteristics, suspension settings, AMG DYNAMICS with, among other things, steering torque characteristics and AMG SOUND EXPERIENCE are modified to suit the selected drive program. The maximum drive power can be called up in the Sport+ drive program, or in all drive programs during aggressive acceleration. In the drive programs (except Sport+), maximum power is adjusted to increase efficiency.

	AMG EQE SUV
Slippery	50% output (308 hp)
Comfort	80% output (493 hp)
Sport	90% output (555 hp)
Sport+	100% output (617 hp)
RACE START without Boost function	100% output (617 hp)
RACE START with Boost function	110% output (677 hp)

The driver can also pre-select the basic suspension setup via the AMG DYNAMIC SELECT drive programs. At the touch of a button, the driving style varies from highly dynamic in "Sport+" to smooth gliding in the "Comfort" setting. In addition, tuning can be adjusted in three stages independently of the drive programs via a dedicated button.

Depending on the drive program, the central drive control unit automatically activates different de-rating and cooling strategies. In "Sport" and "Sport+," the cooling system is activated sooner and cooling capacity is increased to maintain power delivery for a longer duration.

AMG high-performance brake system

The AMG high-performance brake system with six-piston brake calipers and 16.3 x 1.3 inch (415 x 33 mm) brake discs at the front and single-piston brake calipers and 14.9 x 0.9 inch (378 x 22 mm) brake discs at the rear offer high levels of fade-resistance and durability. The optional AMG ceramic high-performance composite brake system uses even larger brake discs measuring 17.3 x 1.6 inch (440 x 40 mm) at the front.

Another innovative feature is the i-Booster intelligent electromechanical brake booster. It ensures the brake system efficiently combines electric recuperation with the hydraulic brake. The i-Booster is specially tuned for the AMG brake system to deliver an authentic driving experience.

AMG SOUND EXPERIENCE: unique sound experience with a wide bandwidth

With AMG SOUND EXPERIENCE, the performance and sports car brand is giving a new voice to electric mobility – a soundtrack for inside and out that emotionally enhances the dynamic driving experience. Like the drive programs, the acoustic composition has a wide bandwidth. In the standard basic version "Authentic," the customer can regulate the sound and its intensity depending on the driving status and selected drive program. The hallmark AMG driving sounds are generated with the help of additional hardware, including special speakers, a bass actuator, and a sound generator. Another option for even more individuality: using the AMG steering wheel buttons or the central display, the driver can select the sound characteristics "Balanced," "Sport" and "Powerful" in each drive program. During RACE START, the vehicle produces a unique sound to match the dynamic acceleration.

In addition to the drive sounds, the AMG SOUND EXPERIENCE also features event sounds – suitable sounds for all vehicle functions that emit a sound. This includes starting and stopping the motor, charging or infotainment functions and even the simulated click of direction indicators. Another unique feature is the AMG-specific event sound that is heard when the vehicle is locked. The event sounds can be deactivated at any time via the multimedia system settings – separately for the exterior and interior.

AMG DYNAMIC PLUS Package with dynamic driving extras

The optional AMG DYNAMIC PLUS package combines extra dynamic features – including the powerful boost for RACE START, an increase in maximum speed to 149 mph and the AMG SOUND EXPERIENCE "Performance," which creates an even more emotional soundscape.

The driving dynamics deliver what the sound promises. If the temperature and state of charge are suitable, the maximum power and torque for RACE START can be briefly increased. The AMG EQE SUV then takes just an estimated 3.4 seconds to sprint from 0 to 60 mph. The onboard bass actuator and speakers make the power of the electric motors known, even when stationary, and provide an emotionally charged sound backdrop to the rapid acceleration. The AMG-specific graphics in the displays also visually underscore the driving performance.

Further options for an even more dynamic AMG experience

Optional design features such as the AMG Night package and AMG Night Package Plus with elements in black and black chrome, or the AMG Carbon Fiber interior trim, can enhance the dynamic AMG look. The choice of the AMG ceramic high-performance composite brake system and aerodynamically optimized 20- and 21-inch AMG light-alloy wheels can further contribute to refined driving dynamics.

AMG TRACK PACE, a virtual race engineer, is also available as an option: the software is part of the MBUX infotainment system and permanently records more than 80 vehicle-specific data (i.e. speed and acceleration). For example while driving on a race track, lap and sector times are displayed, as well as the respective difference from a reference time. Drivers are able to see at a glance whether they are currently faster or slower than the best time. Green or red display elements are shown on the multimedia display, in the instrument cluster and on the optional head-up display.

High-performance drive battery with a capacity of 90.6 kWh

The new Mercedes-AMG EQE SUV is equipped with a powerful 328-volt high-performance drive battery manufactured using the latest lithium-ion technology. It has a usable energy content of 90.6 kWh and consists of ten modules with a total of 360 pouch cells. The battery management system in the AMG EQE SUV is also tuned specifically for AMG. In the Sport and Sport+ drive programs the focus is on performance. In the Comfort drive program operating range is prioritized. The battery generation is characterized by a high energy density and has a high charging capacity. Another new feature is the possibility to install updates for the battery management system over-the-air for continuous improvements. The vehicle also features an AMG-specific wiring harness adapted to the higher performance capability. A major advance in sustainability has been achieved in the cell chemistry: the cobalt content is reduced to ten percent, while the optimized active material consists of nickel, cobalt and manganese in a ratio of 8:1:1.

Short charging times through intelligent thermal management

Another advantage of the new generation battery is quick charging times. The energy storage system can charge with up to 170 kW at fast charging stations with direct current. In this case, electricity for approximately 100 miles (170

kilometers, WLTP) can be recharged in just 15 minutes¹. With the on-board charger, the AMG EQE SUV can be conveniently charged at home or at public charging stations with alternating current. In addition, there are intelligent charging programs that can be activated automatically depending on the location. Functions such as battery-saving charging make operations even more efficient.

The efficient thermal management also plays a part in quicker charging times. If the intelligent navigation with Electric Intelligence is activated, the battery is preheated or cooled while driving to reach the optimal temperature for faster charging at the charging point. The desired temperature range of the battery is achieved with the aid of the cooling circuit and a PTC (Positive Temperature Coefficient) booster heater integrated into it.

The battery design aims to ensure the optimum battery operating temperature under all operating conditions. The aluminum extrusions of the battery frame have defined cavities through which the coolant flows. The intelligent temperature and charging management ensures that high charging currents can be maintained for a long time. The standard heat pump uses the waste heat from the electric drive (inverter and electric motor) and the high-voltage battery to heat the interior. This reduces the need to use battery power for interior heating, and thus increases range. Another function is pre-entry climate control.

The battery also stands out for its durability. The ECO Charging function makes a significant contribution to this: the intelligent control reduces the battery load during charging, and thus slows down the natural aging process of the battery. Customers can also benefit from the "charging interruption" function, which enables the charging process to be paused at freely selectable times to prioritize charging during off-peak times.

The battery certificate of 10 years or up to 155,000 miles guarantees long service life of the high-voltage batteries.

Intelligent recuperation for efficient energy recovery

The battery can also be charged through efficient energy recovery using recuperation. The recuperation power reaches up to 260 kW². Drivers can adjust the level of recuperation in three stages via paddles on the steering wheel and receive situation-optimized support from ECO Assist. Here, one-pedal driving and combined braking to a standstill are possible in recuperation levels D and D-. In D^{Auto}, up to 5 m/s² deceleration is achieved, 3 m/s² of which is due to recuperation and 2 m/s² via the AMG high-performance brake system.

Mercedes me connect App: easy to use on smartphone and tablet

The Mercedes me connect App offers many improved and new functions. These include a filtering option that allows charging points to be sorted according to criteria such as availability or charging capacity. The app now also shows how busy the respective charging station is likely to be during the course of the day, based on a probability calculation.

Predictive route planning and efficient driving with Electric Intelligence

When it comes to Navigation with Electric Intelligence, the name says it all. The system plans the fastest and most convenient route, including charging stops, based on numerous factors and reacts dynamically to traffic events as well as changes in driving style. It also takes into account topography, route, ambient temperature, driving speed and heating and cooling requirements.

¹ Charging time at DC fast-charging stations with 500 amperes. Figures for charging times are provisional and were obtained internally in accordance with the certification method "WLTP test procedure". Confirmed TÜV figures, EC type approval and certificate of conformity with official figures are not yet available. Differences between the stated figures and the official figures are possible.

² This value refers to the electrical power fed into the electric battery due to recuperation. It can be achieved under optimal environmental conditions, depending on, among other things, state of charge and temperature. Deviations are possible.

For its calculations the system uses information from the cloud, which it combines with onboard data. The planned route can be edited individually. For example, the customer can set the additional reserve at the destination and at the charging station – ten percent state of charge (SoC) is standard. If the "Charge at destination" function is selected, the set reserve may be undercut until the destination is reached. MBUX indicates whether the available battery capacity is sufficient to reach the destination without charging.

Further options for individual route planning include:

- Prioritize charging stations along the route that have been manually added
- Exclude suggested charging stations
- Calculation of the expected charging costs per charging stop

If there is a risk of not reaching the destination or the charging station with the selected settings, Active Range Monitoring issues the prompt to activate ECO driving functions.

Comprehensive safety concept: Battery is crash-protected in the underbody

The battery sits in a crash-protected area in the underbody, embedded in the bodyshell structure and includes an extruded aluminum profile to the side. During extrusion, a heated block of metal is pushed through the dies and turns into an endless section, which is then cut to fit. This makes highly complex profiles that are precisely tailored to the requirements possible. The housing with energy absorbing structures at the front and side, as well as a rigid, double-walled base plate, provide additional protection for the modules. In addition, there is a separate, multi-level safety system for everyday operation. This includes, for example, temperature, voltage or insulation monitoring. If a fault occurs, the battery switches off. Crash monitoring when stationary is also standard.

Technical data

Mercedes-AMG EQE SUV

Drive system and battery		
Electric motors	Type	Two permanently excited synchronous motors
Rated output	hp	617 / 677 when using RACE START mode
Rated torque	lb-ft	701 / 738 when using RACE START mode
Drive system		AMG Performance 4MATIC+ fully variable all-wheel drive
Battery type		Lithium-ion
Rated voltage	V	328
Battery energy content, usable	kWh	90.6
AC charging capacity, max.	kW	9.6
DC charging capacity, max.	kW	170
Suspension		
Front axle	AMG RIDE CONTROL+ with four-link front suspension, air suspension strut, Adaptive Damping System and AMG ACTIVE RIDE CONTROL active roll stabilization	
Rear axle	AMG RIDE CONTROL+ five-link independent rear suspension, air suspension strut, Adaptive Damping System and AMG ACTIVE RIDE CONTROL active roll stabilization	
Brake system	Dual-circuit hydraulic brake system; front: 16.3x1.3 in (415x33 mm) brake discs, internally ventilated and perforated, 6-piston aluminum fixed caliper; rear: 14.9x0.9 in (378x22 mm) brake discs, internally ventilated and perforated, 1-piston aluminum sliding caliper; electric parking brake, ABS, Brake Assist, 3-stage ESP®	
Steering	Electromechanical speed-sensitive power steering with rack and pinion, variable steering ratio (12.8:1 at dead center) and variable power assistance, standard rear-axle steering (9.0°)	
Wheels	front and rear: 9.5 J x 21 ET42	
Tires	front and rear: Michelin Pilot Sport EV MO1 275/40 R21	
Dimensions and weights		
Number of doors/seats		4/5
Length / width (width w/o mirrors / height)	in	192.1 / 84.3 (76.4) / 65.8
Wheelbase	in	119.3
Track, front / rear	in	65.1 / 65.3
Turning radius	ft	35.8
Cargo capacity	cu-ft	18.4-59.2
Curb weight	lbs	5,930
Performance and range		
0-60 mph	s	3.4 (est.) when using RACE START
Top speed	mph	149 (electronically limited)
All-electric range	mi	235

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About Mercedes-Benz

Mercedes-Benz USA (MBUSA), headquartered in Atlanta, is responsible for the distribution, marketing and customer service for all Mercedes-Benz products in the United States. MBUSA offers drivers the most diverse lineup in the luxury segment with 18 model lines ranging from the sporty GLA SUV to the flagship S-Class and the dynamic all-electric Mercedes-EQ family. MBUSA is also responsible for Mercedes-Benz Vans in the U.S. More information on MBUSA and its products can be found at www.mbusa.com and www.mbvans.com.

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