



Mercedes-Benz

The new Mercedes-AMG S65 Cabriolet

Press Information

Open-top Driving with Prestige and Performance

Summer 2016

With the new S65 Cabriolet, Mercedes-AMG is offering a performance car that combines the impressive power of the handcrafted AMG 6.0L V12 biturbo engine with the pleasure of open-top driving for four occupants for the first time. An output of 621 horsepower and 738 lb-ft of torque, the AMG Sport Suspension based on AIRMATIC® and the exquisite appointments emphasize the exceptional status of the new flagship model in the S-Class family from Mercedes-AMG. A new dimension in open-air motoring is guaranteed by the automatic wind protection system AIRCAP®, the AIRSCARF® neck-level heating system, heated armrests and intelligent climate control. The three-layered acoustic fabric soft top is available in four colors, and has a very high-quality interior lining in Nappa leather and DINAMICA microfiber.

No other car manufacturer in the world offers such a wide portfolio of twelve-cylinder models as Mercedes-AMG: The S65 Sedan, SL65 Roadster, G65 off-roader and S65 Coupe are now joined by the new S65 Cabriolet as a further high-performance alternative for discerning automobile enthusiasts.

"The customer base for our V12 biturbo engine expects the ultimate in every respect. That is why we are offering a four-seater high-performance convertible with this legendary power unit for the first time. The new S65 Cabriolet sets benchmarks for all relevant criteria: top performance, a breathtaking driving experience and exquisite appointments," says Tobias Moers, Chairman of Mercedes-AMG GmbH.

The peak output of 621 horsepower and maximum torque of 738 lb-ft make for effortlessly superior performance. The Mercedes-AMG S65 Cabriolet sprints from zero to 60 mph in 4.0 seconds. The AMG Driver's Package, standard in the U.S. market, includes an increase in top speed to 186 mph (also electronically limited). Overall, it is the unrivalled 12-cylinder driving experience that thrills much more

than facts and figures: stylish driving comfort and effortless power delivery combine with great refinement and the unmistakable AMG V12 engine sound.

Key data at a glance

	Mercedes-AMG S65 Cabriolet
Engine	Handcrafted AMG 6.0L V12 biturbo
Displacement (cc)	5980
Rated output	621 hp at 4800-5400 rpm
Peak torque	738 lb-ft at 2300-4300 rpm
Acceleration 0-60 (s)	4.0
Top speed* (mph)	186

* Electronically limited

Technical highlights of the handcrafted AMG 6.0L V12 biturbo engine

- Aluminum crankcase
- Forged crankshaft in high-grade alloy steel
- Multi-spark ignition with 12 twin-spark ignition units
- Air-to-water intercooler with low-temperature circuit
- Alternator management
- ECO start/stop function

The exclusive carbon-fiber/aluminum engine cover also visually conveys the exceptional strengths of the V12 engine, which will be hand-assembled on the new, additional AMG engine line in Mannheim from 2016. The ultra-modern assembly layout is logistically and ergonomically perfect for the AMG philosophy of "One Man, One Engine," where each engine is assembled entirely by hand by a single technician. A badge bearing the technician's signature is attached to the engine as a personal testimony of perfection and quality.

Power transmission with three individual driving modes

The AMG SPEEDSHIFT® PLUS 7G-TRONIC transmission is responsible for transferring power to the rear axle. This automatic transmission offers a choice of

three individual modes, Comfort (C), Sport (S) and Manual (M). Sport and Manual emphasize the vehicle's dynamic character: the ultimate emotional appeal and tangible sportiness are ensured by the brief, precisely defined cutback of ignition and injection when shifting up a gear under full load. This shortens shift times and lends an audibly more emotive tone to gearshifts. The ECO start/stop function is activated in transmission mode "C."

Design features: High-sheen chrome as a distinguishing feature

The Mercedes-AMG S65 Cabriolet also fascinates with its irresistible, timeless design lines. V12-specific features include the numerous design elements in high-sheen chrome at the front, sides and rear, which are particularly effective in conjunction with dark paint finishes. The large central Mercedes star on the front apron, the "twin blade" radiator grille, all of the air intake grilles, the trim strip on the "A-wing," the side flics (air deflector elements) and the front splitter are in high-sheen chrome. The front splitter reduces lift at the front axle, while the gap above the front splitter ensures an effective flow of air to the separate engine oil cooler behind it.

At the sides, the eye is drawn to the "V12 BITURBO" lettering on the wings and the high-sheen chrome inserts in the side skirts – which harmonize perfectly with the high-sheen multi-spoke forged wheels. Their large size of 8.5" J x 20" with size 255/40 ZR 20 tires at the front, and 9.5" J x 20" with tire size 285/35 ZR 20 at the rear, emphasizes the model's athletic appearance.

In the closed position, the multi-layered acoustic soft top has the design contours of a coupe silhouette. The fabric soft top is available in black, dark blue, beige and dark red. It can be electro-hydraulically opened and closed while on the move up to a speed of 31 mph. Opening and closing takes around 17 seconds. The soft top stores itself above the automatically extending luggage compartment partition. This avoids the need for any additional closures on the soft top compartment lid, in keeping with the high design quality embodied by the S65 Cabriolet.

The rear section also sparkles: The AMG sport exhaust system's two conjoined chromed twin tailpipes in V12 design are fully chrome-plated and perfectly integrated into the rear apron. Above the distinctive diffuser insert, painted in high-gloss black, the trim element forms an effective contrast: it echoes the design of the "A-wings" on the front apron and is finished in high-sheen chrome.

Bodyshell: lightweight and torsionally rigid

The sculptured outside skin surrounds a highly stable structure which is light in weight yet extremely strong thanks to the intelligent material mix. The bodyshell of the new S65 Cabriolet achieves the same torsional rigidity level as a coupe. At the same time the outside skin, the front section and the rear section of aluminum, as well as the use of magnesium, reduce the weight of the bodyshell to that of the current S65 Coupe. The magnesium bulkhead behind the rear seats also contributes to this. This serves to make the bodyshell extremely rigid, but also saves weight by carrying the pyrotechnically deployed rollover bars.

Careful attention to detail is also evident in the luggage compartment concept: when the soft top is opened, it folds away into a section of the luggage compartment. The soft top is separated from the remaining luggage compartment space by means of an electrically operated, retractable cover which encloses the soft top. This luggage compartment partition extends automatically when opening the soft top. This means that the driver no longer needs to stop in order to operate the luggage compartment cover manually. The partition is not activated and the top cannot be folded if the luggage compartment has been loaded in such a way that there are objects in the area of the partition. When the soft top is closed, the luggage compartment partition can be retracted by pressing a button in the inner paneling of the trunk lid, increasing the available luggage space. Additional convenience and space benefits include standard-specification electro-hydraulic remote locking for the luggage compartment and a through-loading facility into the interior.

Interior: equipment, quality and ambience of the highest standard

The extraordinarily stylish character of the twelve-cylinder model is also obvious in the interior: The S65 Cabriolet welcomes its occupants with an incomparably exquisite ambience. The sport seats in *designo* Exclusive Nappa leather are a distinctive highlight with their waterfall diamond-pattern layout. The perforations deliberately avoid the areas where stitching features in the nappa leather. The result is exceptionally neat contrasting seams and an unrivalled impression of quality. Electric adjustment, a memory function and seat climatization are standard features. More contoured seat cushions and backrests improve lateral support when cornering at speed.

The fabric soft top has an interior lining completely in DINAMICA microfiber. High-grade Nappa leather lines the window frame including the A-pillars, the roof claddings and the sun visors.

Outstanding climatic comfort with the roof open or closed

Maximum climatic comfort is assured by the automatic wind protection system AIRCAP®, the AIRSCARF® neck-level heating system, and the heated armrests and rear seat heating included in the Warmth & Comfort Package. In addition, with the intelligent automatic climate control, the driver does not need to select a mode for closed or open top, nor is it necessary to save a temperature setting for these driving conditions.

Sport steering wheel in a three-spoke design

A perfect feel for the car's behavior is ensured by the 3-spoke sport steering wheel in nappa leather, which has a flattened lower section. It features shift paddles, a distinctly contoured rim trimmed with perforated leather in the grip area, and a metal insert with AMG lettering. Also available is the same sport steering wheel design with DINAMICA inserts for an extra sporty driving impression.

Another unique AMG specialty is the AMG instrument cluster: information on the engine speed, vehicle speed and much more appears on two animated round dials on the 12.3 inch, high-resolution color TFT display. The typography, the needles in red/silver, the speedometer with its 220 mph scale and the "V12 BITURBO" lettering in the rev counter all have a distinctive AMG look. When the driver's door is opened, an AMG start-up screen appears on the right-hand display, while an animated Mercedes-AMG S65 Cabriolet appears in the instrument cluster.

Lithium-ion battery reduces weight by over 44 pounds

The Mercedes-AMG S65 Cabriolet is equipped with a lithium-ion battery as standard. This innovative technology offers numerous advantages over a conventional battery concept: with a capacity of 78 Ah, the lithium-ion battery replaces both the starter battery and the backup battery – resulting in a weight saving of over 44 pounds.

Sport suspension based on AIRMATIC®

The sport suspension based on AIRMATIC® provides an incomparable driving experience. It has AMG-specific kinematics, considerably tauter elasto-kinematics and new parameterization of the variable damping adjustment – the driver benefits from more direct responses, and also faster handling responses with a dynamic driving style. The damping characteristics can be preset in two modes: a high level of long-distance comfort or a sporty, stiff setup.

It is perfectly complemented by the electro-mechanical, speed-sensitive sport steering with a constant, direct steering ratio of 13.5:1: this optimizes vehicle handling and agility while maintaining driving safety at high speeds. Depending on the suspension setting, the steering characteristics are adapted for more sporty or comfortable response. In either case the driver feels precise feedback from the road surface, and a high level of steering precision.

Ceramic high-sheen forged wheels with fully integrated wheel bolt cover

The exclusive high-polished forged wheels of the V12 S65 Cabriolet appeal with their exceptional design, which represents a contemporary interpretation of classic sports car rims. Each of the 16 spokes twist so that the light-catching contours radiate to the center of the wheel hub. The effect: The wheel appears larger than its actual dimensions of 8.5" J x 20" at the front and 9.5" J x 20" at the rear.

The forged wheels feature a high-quality, screw-on, fully integrated wheel bolt cover in forged aluminum as standard equipment. Its shape is reminiscent of a center lock as seen in motorsport. The AMG lettering is incorporated into the rim as a design element. Three further forged wheels in the same format are available as optional alternatives – one design variant with a matt black finish and high-sheen rim flange.

Optional ceramic high-performance composite brake system

The AMG® High-Performance Composite Braking System features large brake discs and brake calipers with a grey finish, and red calipers are available as an optional extra. The AMG Ceramic Compound Braking System with 16.5" discs at the front with six-piston fixed calipers and 14.2" discs at the rear is optionally available. This is around 40 percent lighter in weight versus conventional steel one-piece rotors. The lower unsprung masses improve driving dynamics, agility and ride comfort.

Extensive standard equipment with head-up display and touchpad

The extensive range of standard equipment for the Mercedes-AMG S65 Cabriolet includes the head-up display and the touchpad. The head-up display projects key information such as the vehicle speed, speed limits, navigation directions, traffic signs and information from DISTRONIC® PLUS onto the windscreen. The visualization of the engine speed and the current gear is exclusive to AMG. In Manual transmission mode, a colored upshift bar and the possible gears for a manual gear change are also projected onto the windscreen. The virtual color display measuring 8.3 x 2.8 inches appears to float on the hood at a distance of about 69 feet from the driver. The innovative touchpad makes it significantly easier to operate the radio, telephone and navigation system. In contrast to conventional systems, the touchpad can be used to operate all of the infotainment functions. The input area is approximately 2.6 x 1.8 inches in size and is integrated into the handrest with a cover for the keypad.

Intelligent Drive: new standards in safety

The new S65 Cabriolet comes standard with numerous innovative assistance systems that make driving even more comfortable and safe. "Intelligent Drive" systems include PRE-SAFE® Brake with pedestrian detection, DISTRONIC® PLUS with Steering Assist, Brake Assist BAS® PLUS with Cross-Traffic Assist, Active Lane Keeping Assist, Adaptive Highbeam Assist Plus and Night View Assist® Plus. COLLISION PREVENTION ASSIST PLUS features distance and collision warning functions with adaptive Brake Assist, offering protection against collisions from just 4 mph. In addition, when a danger of collision persists and the driver fails to respond, the system is able to carry out autonomous braking at speeds of up to 62 mph, thereby reducing the severity of collisions with slower or stopping vehicles. At speeds of up to around 31 mph the system also brakes in response to stationary vehicles, and is able to prevent rear-end collisions at up to around 25 mph.

The preventive occupant protection system PRE-SAFE® has also been extended. As PRE-SAFE® PLUS, it can now also recognize an imminent rear-end collision and warn following traffic by activating the rear hazard warning lights at a high frequency. When a danger of collision persists, the system can "lock" the brakes of the stationary vehicle prior to a rear-end collision and activate the PRE-SAFE® belt tensioners immediately before impact. This action minimizes the risk of whiplash injury by reducing the forward jolt caused by the impact, and ensuring that the occupants are in the best possible position.

Standard equipment for the Mercedes-AMG S65 Cabriolet includes the following (selection):

- Exclusive package including upholstery in *designo* Exclusive Nappa leather
- Headliner in Nappa leather / DINAMICA microfiber
- LED Intelligent Light System
- 360° camera
- Active Parking Assist with PARKTRONIC
- Burmester® high-end 3D surround sound system
- Driving Assistance Package Plus, including DISTRONIC® PLUS with Steering Assist, PRE-SAFE® Brake, BAS® PLUS with Cross-Traffic Assist, Active Blind Spot Assist, Active Lane Keeping Assist and PRE-SAFE® PLUS
- Warmth and Comfort Package including heated door and center armrests and heated rear seats.
- KEYLESS-GO® package

The Mercedes-AMG S65 Cabriolet will be available in U.S. dealerships in late summer of 2016.

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Mercedes-AMG S65 Cabriolet

Engine

Number of cylinders/arrangement		12/V, 3 valves per cylinder
Displacement	cc	5980
Bore x stroke	in	3.25 x 3.66
Rated output	hp	621 at 4800-5400 rpm
Rated torque	lb-ft	738 @ 2300-4300 rpm
Compression ratio		9.0: 1
Mixture formation		Microprocessor-controlled petrol injection, twin turbo

Power transmission

Drive system		Standard drive system
Transmission		AMG SPEEDSHIFT PLUS 7G-TRONIC
Gear ratios	Final-drive ratio	2.65
	1st gear	4.38
	2nd gear	2.86
	3rd gear	1.92
	4th gear	1.37
	5th gear	1.00
	6th gear	0.82
	7th gear	0.73
	Reverse gear	-3.42

Chassis

Front axle		Sport suspension with four-link axle, AIRMATIC spring and damping system
Rear axle		Sport suspension with multi-link axle, AIRMATIC spring and damping system
Braking system		Hydraulic dual-circuit braking system with vacuum booster, stepped master brake cylinder; 360 mm composite disc brakes at the front, internally ventilated and perforated, fixed callipers; 360 mm disc brakes at the rear, internally ventilated and perforated, floating callipers; electric parking brake, ABS, Brake Assist, 3-stage ESP®
Steering		Electromechanical rack-and-pinion power steering
Wheels		front: 8.5 J x 20; rear: 9.5 J x 20
Tires		front: 255/40 ZR 20; rear: 285/35 ZR 20

Dimensions and weights

Wheelbase	in	115.9
Track, front/rear	in	64.2 F / 64.8 R
Overall length	in	198.6
Overall width	in	75.3
Overall height	in	56.2
Turning radius	ft	39
Trunk capacity*	ft ²	12.3 Top Closed / 8.8 Top Open
Payload	lb	815.7
Gross vehicle weight	lb	5787
Tank capacity / reserve	gal	21.1 / 3.2

Performance and fuel consumption

Acceleration 0-60 mph	s	4.0
Top speed	mph	186