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The new BMW G 650 GS Sertão.



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1. Overall concept.



BMW G 650 GS Sertão – the sporty BMW single cylinder enduro for offroad and everyday.

With its new BMW G 650 GS Sertão, BMW Motorrad has added a new, sporting chapter to the history of single cylinders in the BMW GS family. Whereas the G 650 GS thrilled riders with its lean, wiry offroad stature, the G 650 GS Sertão promises even more sporting characteristics, even greater offroad capabilities, and an even stronger desire for adventure. And all of this without any sacrifice to the established virtues of a BMW single cylinder endure such as everyday practicality, appealing price-performance ratio, and playful riding properties.

Chassis for greater offroad practicality, optimised touring properties, and dynamic design.

On the technical side, the new G 650 GS Sertão uses the established liquid cooled, high-torque single cylinder engine of the G 650 GS with two overhead camshafts, fuel injection, and double ignition. Its 652 cc displacement delivers 35 kW (48 hp) at 6500 rpm and a max torque of 60 Nm at 5000 rpm. Options include output reduction to 25 kW (34 hp) at 6500 rpm and 47 Nm torque at 4500 rpm.

Whereas the G 650 GS chassis was developed primarily for country roads and light offroad use, the Sertão presents far greater offroad practicality in the form of longer spring travels and tighter tuning. In addition, it is fitted with wire spoke wheels.

Also the new colour concept underscores the dynamic character of the single cylinder enduro.

The essential features of the new BMW G 650 GS Sertão at a glance:

- High-torque and low-consumption single cylinder engine with 652 cc displacement. Max torque of 60 Nm at 5000 rpm and max output of 35 kW (48 hp) at 6500 rpm. Output reduction to 25 kW (34 hp) available.
- Offroad chassis concept with long spring travels (front/rear 210 mm).
- Wire spoke wheels with light alloy rims. Wheel sizes 21" front and 17" rear.
- Dynamic colour concept in Aura White / Arroyo Blue with Sertão lettering and seat in black/grey.
- Luggage carrier in black.
- Extended top front wheel cover.
- Two seat heights: 860 mm (standard) and 900 mm (special accessory).
- High windscreen.
- Hand protectors.
- Engine guard of aluminium.
- Disengageable BMW Motorrad ABS (option ex works).
- Extensive range of special accessories.

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2. Technology and design.



Longer spring travels and wire spoke wheels for greater offroad fun.

The BMW G 650 GS did not need long to win the hearts of many fans who were thrilled by the chassis designed for the greatest possible agility and carefree cornering fun on country roads, but without sacrifice to comfort or touring properties. Moreover, its high level of riding stability, steering precision, and handling immediately instils confidence even in motorcycle starters.

With the new BMW G 650 GS Sertão from BMW Motorrad, the G 650 GS has now been joined by a sister model that gives even greater prominence to the offroad talents of the agile single cylinder enduro.

To this end, the front and rear suspension elements were fitted with longer spring travels. Fitted with a standpipe of 41 mm diameter and a stabiliser, the telescopic fork can now travel over 210 mm instead of 170 mm. Also the rear suspension system, consisting of a two arm swinging fork, central spring strut, and rocker, features a 210 mm instead of the 165 mm spring travel. In addition, the wheelbase has been extended from 1477 mm to 1484 mm, now providing even greater directional stability on offroad terrain.

The G 650 GS Sertão can also be fitted with other wheels that cater to a more sporting offroad taste. Unlike the G 650 GS fitted with cast alloy wheels, the Sertão sports high quality wire spoke wheels with alloy rim rings and hubs. With their larger front wheel diameter of 21 instead of 19 inches and smaller rear wheel rim width $(3.00 \times 17^{\circ})$ instead of $3.50 \times 17^{\circ}$, the new wheel sizes promise the rider hours of offroad fun. Also the tyres were modified accordingly on the G 650 GS Sertão $(90/90 \times 154)$ front and $130/80 \times 1765$ rear).

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Higher seat, larger ground clearance, and greater touring practicality.

Presenting a seat height of 860 mm instead of 800 mm, a considerably larger ground clearance, and a sturdy engine guard of aluminium, the G 650 GS Sertão presents the optimal conditions for offroad riding. In addition, the high windscreen, hand protectors, and the extended front wheel cover provide a greater level of comfort on longer tours.

Powerful single cylinder in sporting, dynamic design.

The 652 cc, 35 kW (48 hp) single cylinder with liquid cooling, fuel injection, double ignition, and closed loop catalytic converter delivers a powerful acceleration that cannot fail to thrill. Its strengths are spontaneous throttle response, refined riding properties thanks to the balancer shaft, and very low fuel consumption. Also the design of the new BMW G 650 GS Sertão does full justice to its dynamic performance figures and greater offroad practicality. Its colouring, vivid lettering, and sturdy look not only underscore the refined offroad talents of the G 650 GS Sertão, but also emphasise its affiliation to the dynamic GS family of BMW Motorrad.

Characteristic enduro colour scheme in the legendary GS style.

The high contrast colour scheme in Aura white / Arroyo blue combined with the seat in black/grey and the vivid Sertão lettering lend the G 650 GS Sertão its particular sturdy enduro character.

That special sporting touch is contributed by black surfaces on the engine, exhaust embellishers, fork slider tubes, side plate holder, luggage carrier, extended front wheel covers, and hand protectors. And the quality of the engineering is highlighted by the wire spoke wheels in the colour of aluminium, the engine guard, and the engine cover painted in Nürburg silver for the alternator and clutch.

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3. Equipment range.



Special equipment and special accessories – a plethora of optimising options for the BMW G 650 GS Sertão.

Even with the standard equipment, the new BMW G 650 GS Sertão is virtually the perfect embodiment of a dynamic offroad enduro. Moreover, BMW Motorrad can provide an unusually extensive range of special equipment and accessories for even greater individualisation of the new BMW G 650 GS Sertão.

Special equipment is delivered directly ex works and is integrated in the production process. Special accessories are installed at BMW Motorrad dealerships. The motorcycle can therefore be fitted with options after it has left the factory.

Special equipment.

 BMW Motorrad ABS 	(disengageable)	Lincluding hazard	d warning flashers
DIVIVV IVIOLOTIAA / NDO	aloci idadeable		

•Heated (grips.*
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- Alarm system DWA.*
- Charging socket.*
- *Also as a special accessory retrofit

Special accessories.

Storage space programme.

- •Vario case.
- Case holder.
- Liner for Vario case.
- Topcase.
- •Liner for topcase.

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•Tank rucksack.

Ergonomics and comfort.

- •Heated grips.*
- Charging socket.*
- •High seat (height 900 mm).
- •Single seat with luggage compartment (height 860 mm like standard).
- •Windshield, high, tinted.

Safety.

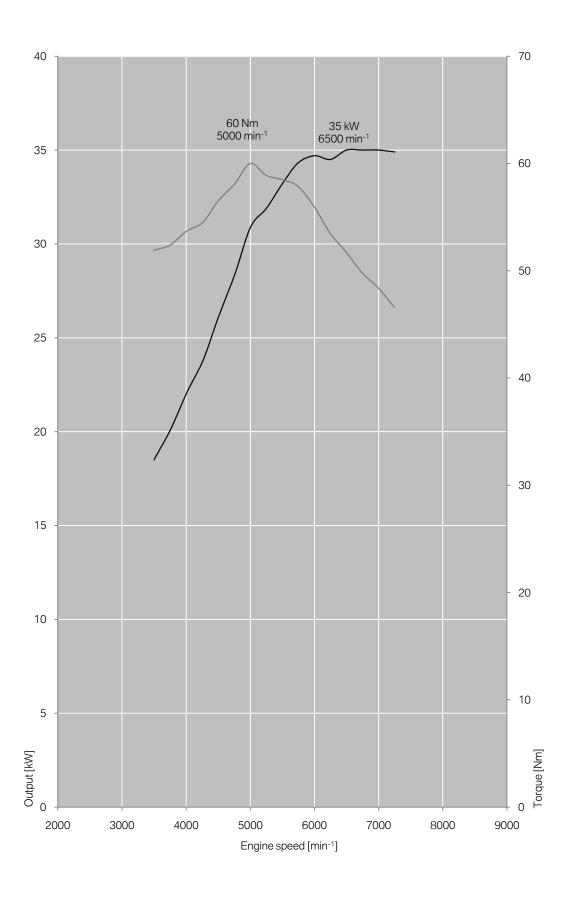
Alarm system DWA.*

Technology.

- •Crash bars.
- •LED light for onboard charging socket.
- •Output reduction to 25 kW.
- * Also available as special equipment ex works.

4. Engine output and torque.





5. Technical specifications.



			BMW G 650 GS	BMW G 650 GS Sertão
Engine				
Capacity		CC	652	
Bore/stroke		mm	100/83	
Output		kW/hp	35/48	
at speed		rpm	6 500	
Torque		Nm	60	
at speed		rpm	5 000	
Туре		W	later-cooled single-cylinder 4 stroke engine	
Compression/fuel			11.5:1 / regular lead free (91 RON)	
Valve actuation		Ī	DOHC (double overhead camshaft), Bucket tappets	
Valves per cylinder			4	
Ø intake/outlet	<u> </u>	mm	36/31	
Throttle valve diameter		mm	43	
Carburetion			BMS-C II	
Emmission control			Fully controlled three-way catalytic converter	
Electrical system				
Alternator		W	400	
Battery		V/Ah	12/12	
Headlight		Н	igh-/Low beam: Halogen 12 V/55 W	
Rear light			Brake light: 12V/21W, rear light: 12V/5W	
Starter		kW	0.9	
Gearbox power transm	ission			
Clutch			Multiple clutch in oil bath, mechanically controlled	
Gearbox			Constant mesh 5-speed gearbox	
Primary ratio			1.946	
Gear transmission ratio	1		2.750	
	II		1.750	
	III		1.313	
	IV		1.045	
	V		0.875	
Rear wheel drive			chain	
Transmission ratio			2.937	
Chassis				
Frame construction type			Steel bridge frame with rear frame bolted on	
Suspension, front			Telescopic fork with stabiliser	
Suspension, rear			Double boxed swing arm of steel sections, spring strut actuated via central rocker system,	
spring travel front/rear		mm	170/165	210/210
Wheel castor		mm	113	123

		BMW G 650 GS	BMW G 650 GS Sertão
Wheelbase	mm	1 477	1 484
Steering head angle	0	61.9	
Brakes	front	Hydraulically actuated single disc brake, fully floating, 300 mm diameter, double piston floating calliper	
	rear	Hydraulically actuated single disc brake, 240 mm diameter, single piston floating calliper,	
ABS		BMW Motorrad ABS, disengageable (special equipment)	
Wheels		Cast aluminium wheels	Wire spoke wheels
	front	2.50 x 19"	2.50 x 21"
	rear	3.50 x 17"	3.00 x 17"
Tyres	front	110/80 R19	90/90 R21 54S
	rear	140/80 R17	130/80 R17 65S
Dimensions and weights			
Total length	mm	2165	2185
Total width with mirrors	mm	920	
Seat height (without rider)	mm	800 (standard) 770 (special equipment: low slung) 840 (special accessory: high seat)	860 (standard) 900 (special accessory: high seat)
DIN unladen weight, ready for road	kg	192	193
Permitted total weight	kg	380	
Fuel tank level	I	14	
Riding data			
Fuel consumption			
90 km/h	l/100 km	3.2	
120 km/h	l/100 km	4.3	
Acceleration			
0–100 km/h	S	5.7	
Max speed	km/h	170	
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