

## BMW G 650 GS

### Engine

Type	Water-cooled, single-cylinder 4-stroke engine, four valves, two overhead camshafts, dry sump lubrication
Bore x stroke	100 mm x 83 mm
Capacity	652 cc
Rated output	48 hp (35 kW) at 6,500 rpm
Max. torque	44 lb/ft (60 Nm) at 5,000 rpm
Compression ratio	11.5 : 1
Mixture control / engine management	Electronic intake pipe injection / BMW engine management, twin-spark ignition
Emission control	Closed-loop 3-way catalytic converter, emission standard EU-3

### Performance / fuel consumption

Maximum speed	approx. 105 mph (170 km/h)
Fuel consumption per 100 km at constant 90 km/h	74 mpg, at a constant 55 mph
Fuel consumption per 100 km at constant 120 km/h	
Fuel type	Unleaded regular.

### Electrical system

Alternator	three-phase alternator 400 W
Battery	12 V / 12 Ah

### Power transmission

Clutch	Multiple-disc clutch in oil bath, mechanically operated
Gearbox	Constant mesh 5-speed gearbox integrated into crankcase
Drive	Endless O-ring chain with shock damping in rear wheel hub

### Chassis / brakes

Frame	Bridge-type steel section frame with bolted-on rear section
Front wheel location / suspension	Telescopic fork, Ø 41 mm, fork stabilizer
Rear wheel location / suspension	Box-section steel dual swing arm, central spring strut operated by lever system, spring pre-load hydraulically adjustable (continuously variable) at handwheel, rebound damping adjustable
Suspension travel front / rear	6.7/6.5 inches (170 mm/165 mm); 5.5/5.1 inches (140 mm/130 mm) with lowered suspension
Wheelbase	58.2 inches (1,477 mm)

Castor	4.5 inches (113 mm)
Steering head angle	61.9°
Wheels	Cast aluminum
Rim, front	2,50 x 19"
Rim, rear	3.50 x 17"
Tyres, front	110/80 R19 59V
Tyres, rear	140/80 R17 69V
Brake, front	Single disc, diameter 300 mm, double-piston floating caliper
Brake, rear	Single disc, diameter 240 mm, single-piston floating caliper
ABS	Optional extra: BMW Motorrad ABS (can be switched off)

### Dimensions / weights

Length	85 inches (2,165 mm)
Width (incl. mirrors)	36 inches (920 mm)
Height (excl. mirrors)	55 inches (1,390 mm)
Seat height, unladen weight	30.7 inches (780 mm); lowered suspension: 29.5 inches (750 mm) high seat: 32.2 inches (820 mm)
Inner leg curve, unladen weight	
Unladen weight, road ready, fully fuelled <sup>1)</sup>	423 lbs (192 kg)
Dry weight <sup>2)</sup>	386 lbs (175 kg)
Permitted total weight	838 lbs (380 kg)
Payload (with standard equipment)	415 lbs (188 kg)
Usable tank volume	3.7 gallons (14.0 liters)
<b>Reserve</b>	<b>Approx. 1 gallon (4.0 liters)</b>

Technical data relate to the unladen weight (DIN)

<sup>1)</sup> According to guideline 93/93/EWG with all fluids, fuelled with at least 90% of usable tank volume

<sup>2)</sup> Unladen weight without fluids