



BMW F 650 GS

Gravel? Tarmac? Cobblestones? Sand? The BMW F 650 GS is a match for any surface. This is the definitive multi-talented bike. Whether it's tiny alleyways in town, sweeping bends on country roads or adventurous wild terrain, the light handling is a winner with novices and pros alike. The adjustable seat height ensures outstanding ergonomics. The engine management system together with twin-spark ignition delivers lower fuel consumption and reduced exhaust emissions. Hence the powerful four-valve single-cylinder engine is state-of-the-art and sets new standards in its class. For holders of a restricted motorcycle licence, power reduction is available as an optional extra.



Paintwork: red



Paintwork: deep black



Paintwork: iceberg silver metallic

Engine

Type	Water-cooled, single-cylinder 4-stroke engine, four valves, two overhead camshafts, dry sump lubrication
Bore / stroke	100 mm x 83 mm
Capacity	652 cc
Rated output	37 kW (50 hp) at 6,500 rpm (output reduction to 25 kW (34 hp) at 5,500 rpm possible)
Max. torque	60 Nm at 4,800 rpm (with output reduction: 51 Nm at 4,000 rpm)
Compression ratio	11.5 : 1
Fuel / 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. 170 km/h (with output reduction: approx. 145 km/h)
Fuel consumption per 100 km at constant 90 km/h	3.2 l
at constant 120 km/h	4.3 l
Fuel type	Unleaded regular, minimum octane rating 91 (RON)

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 suspension	Telescopic fork, \varnothing 41 mm, fork stabiliser
Rear 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
Travel front / rear	170 mm / 165 mm
Wheelbase ¹	1,477 mm
Castor ¹	113 mm
Steering head angle ¹	61.9°
Wheels	Wire spoke
Rim, front	2.50 x 19"
Rim, rear	3.00 x 17"
Tyre, front	100/90 S 19
Tyre, rear	130/80 S 17
Brake, front	Single disc, \varnothing 300 mm, double- piston floating caliper
Brake, rear	Single disc, \varnothing 240 mm, single-piston floating caliper
ABS ²	BMW Motorrad ABS (can be switched off)

Dimensions / weights

Seat height	780 mm (lowered suspension 750 mm; high seat: 820 mm)
Inner leg curve	1,800 mm (lowered suspension 1,710 mm; high seat: 1,880 mm)
Unladen weight, road ready ³	192 kg
Dry weight ⁴	175 kg
Permitted total weight	380 kg
Payload (with standard equipment)	188 kg
Usable tank volume	17.3 l
Reserve	approx. 4.5 l
Length	2,175 mm
Height (excl. mirrors)	1,265 mm
Width (incl. mirrors)	910 mm

1) Unladen as per DIN standard

2) Optional extra

3) In compliance with Directive 93/93/EEC with all fluids, fuelled with at least 90 % of usable tank volume

4) Unladen weight without operating fluids