

BMW Motorrad
USA

Motorcycles
since 1923



BMW F 650 GS



Engine

Type	Water-cooled, 2-cylinder, 4-stroke, four valves per cylinder, two overhead camshafts, dry sump lubrication
Bore x stroke	82 mm x 75.6 mm
Capacity	798 cc
Rated output	71 hp (52 kW) at 7,000 rpm
Max. torque	55 lb/ft (75 Nm) at 4,500 rpm
Compression ratio	12.0 : 1
Mixture control / engine management	Electronic intake pipe injection / digital engine management (BMS-K)
Emission control	Closed-loop 3-way catalytic converter, emission standard EU-3

Performance / fuel consumption

Maximum speed	Approx. 115 mph (185 km/h)
Fuel consumption per 100 km at constant 90 km/h	3.7 l
Fuel consumption per 100 km at constant 120 km/h	5.2 l
Fuel type	Unleaded Regular

Electrical system

Alternator	three-phase alternator 400 W
Battery	12 V / 14 Ah, maintenance-free

Power transmission

Clutch	Multiple-disc clutch in oil bath, mechanically operated
Gearbox	Constant mesh 6-speed gearbox integrated into crankcase
Drive	Endless O-ring chain with shock damping in rear wheel hub

Chassis / brakes

Frame	Tubular steel space frame, load-bearing engine
Front wheel location / suspension	Telescopic fork, Ø 41 mm
Rear wheel location / suspension	Cast aluminium dual swing arm, central spring strut, spring pre-load hydraulically adjustable (continuously variable) at handwheel, rebound damping adjustable
Suspension travel front / rear	7.1 inches (180 mm) / 6.7 inches (170 mm)
Wheelbase	62.0 inches (1575 mm)
Castor	3.6 inches (92 mm)
Steering head angle	64°
Wheels	Cast aluminium
Rim, front	2.50 x 19"
Rim, rear	3.50 x 17"
Tyres, front	110/80 - 19 tubeless
Tyres, rear	140/80 - 17 tubeless
Brake, front	Single disc, diameter 11.8 inches (300 mm), double-piston floating caliper
Brake, rear	Single disc, diameter 10.4 inches (265 mm), single-piston floating caliper
ABS	Optional extra: BMW Motorrad ABS (can be switched off)

Dimensions / weights

Length	89.7 inches (2280 mm)
Width (incl. mirrors)	33.2 inches (890 mm)
Height (excl. mirrors)	48.8 inches (1240 mm)
Seat height, unladen weight	32.3 inches (820 mm) (low seat: 31.3 inches [790 mm]; lowered suspension: 30.1 inches [765 mm])
Inner leg curve, unladen weight	71.7 inches (1820 mm) (low seat: 70.1 inches [1780 mm]; lowered suspension: 67.3 inches [1,710 mm])
Unladen weight, road ready, fully fuelled 1)	439 lbs (199 kg)
Dry weight 2)	377 lbs (171 kg)
Permitted total weight	952 lbs (432 kg) (with lowered suspension 769 lbs [349 kg])
Payload (with standard equipment)	522 lbs (237 kg) (with lowered suspension 331 lbs [150 kg])
Usable tank volume	4.2 U.S. gallons
Reserve	approx. 1 U.S. gallon

Technical data relate to the unladen weight (DIN)

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

2) Unladen weight without fluids