

Technical data sheets BMW Motorrad

Date: 16.09.2011

Status: approved

G 650 GS Sertao (R13/40 Sertao)

Engine	ECE	US
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	35 kW (48 hp) at 6,500 rpm (output reduction to 25 kW (34 hp) at 6,500 rpm possible)	37 kW (50 hp) at 6,500 rpm
Max. torque	60 Nm at 5,000 rpm (with output reduction: 47 Nm at 4,500 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. 170 km/h (with output reduction: approx. 145 km/h)
Fuel consumption per 100 km at constant 90 km/h	3.2 l
Fuel consumption per 100 km 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 wheel location / suspension	Telescopic fork, Ø 41 mm, fork stabiliser
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	210 mm / 210 mm
Wheelbase	1,484 mm
Castor	123 mm
Steering head angle	61.9°
Wheels	Wire spoke wheels
Rim, front	1,60 x 21"
Rim, rear	3,00 x 17"
Tyre, front	90/90 R21 54S
Tyre, rear	130/80 R17 65S
Brake, front	Floating single disc, diameter 300 mm, double-piston floating caliper
Brake, rear	Single disc, diameter 240 mm, single-piston floating caliper
ABS	BMW Motorrad ABS (can be switched off) *OE

Dimensions / weights

Seat height	860 mm (high seat: 900 mm (special accessory))
Inner leg curve	1930 mm (high seat: 2010 mm (special accessory))
Unladen weight, road ready, fully	193 kg
Dry weight 2)	177 kg
Permitted total weight	380 kg
Payload (with standard equipment)	187 kg
Usable tank volume	14,0 l
Reserve	ca. 4,0 l
Length	2,185 mm
Height (excl. mirrors)	1,440 mm
Width (incl. mirrors)	920 mm

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

*OE optional extra