



# F 650 GS

## Technical data and colors

Updated: October 2009

### Engine:

**Type:**

- Water-cooled 4-stroke in-line two-cylinder-engine, two overhead camshafts, four valves per cylinder, dry sump lubrication

**Bore / stroke:**

- 82 mm x 75.6 mm

**Capacity:**

- 798 cc

**Rated output:**

- 52 kW (71 hp) at 7,000 rpm (output reduction to 25 kW (34 hp) at 5,000 rpm possible)

**Max. torque:**

- 75 Nm at 4,500 rpm (with output reduction: 57 Nm at 3,000 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. 185 km/h

### 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 preload hydraulically adjustable (continuously variable) at handwheel, rebound damping adjustable

**Travel front/rear:**

- 180 mm / 170 mm

**Wheelbase :**

- 1,575 mm

**Castor :**

- 92 mm

**Steering head angle:**

- 64°

**Wheels:**

- Cast aluminium wheels

**Rim front:**

- 2,50 x 19"

**Rim rear:**

- 3,50 x 17"

**Tyres front :**

- 110/80 - 19" 59H

**Tyres rear:**

- 140/80 - 17" 69H

**Brake front:**

- Single disc brake, diameter 300 mm, double-piston floating caliper

**Brake rear:**

- Single disc brake, diameter 265 mm, single-piston floating caliper

**ABS:**

- Optional extra: BMW Motorrad ABS (can be switched off)

## Dimensions / Weight:

### Length:

- 2,280 mm

### Height (not inc. mirrors):

- 1,240 mm

### Width (inc. mirrors):

- 890 mm

### Seat height, unladen weight:

- 820 mm (low seat: 790 mm, lowered suspension: 765 mm, comfort seat: 835 mm)

### Inner leg curve:

- 1,810 mm (low seat: 1,760 mm, lowered suspension: 1.710 mm, comfort seat: 1,840 mm)

### Unladen weight, road ready, fully fuelled 1):

- 199 kg

### Dry weight 2):

- 179 kg

### Permitted total weight:

- 436 kg (with lowered suspension 349 kg)

### Payload (with standard equipment):

- 237 kg (with lowered suspension 150 kg)

### Usable tank volume:

- 16 l

### Reserve:

- approx. . 4.0 l

### 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

## Color possibilities:



Paintwork:biarritzblue metallic



Paintwork:lava orange metallic



Paintwork:white aluminium matt metallic

The models illustrated in this brochure show the specifications for Germany. In part, they include optional equipment and accessories not fitted as standard. According to the specific requirements of other markets, alterations in models and equipment as described here may occur. For detailed information on the range of rider equipment and accessories available in your country, please contact your BMW Motorrad dealer. Subject to change in design and equipment. Subject to error.

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**BMW Motorrad**  
Enduro

F 650 GS



**The Ultimate  
Riding Machine**