



# G 650 Xchallenge

## Technical data and colors

Updated: October 2009

### Engine:

**Type:**

- Water-cooled, single-cylinder 4-stroke, four valves, two overhead camshafts, dry sump lubrication

**Bore / stroke:**

- 100 mm x 83 mm

**Capacity:**

- 652 cc

**Rated output:**

- 39 kW (53 hp) at 7,000 rpm

**Max. torque:**

- 60 Nm at 5,250 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. 165 km/h

**Fuel consumption over 100 km at constant 90 km/h:**

- 3.6 l

**Fuel consumption over 100 km at constant 120 km/h:**

- 5.1 l

**Fuel type:**

- Unleaded super, minimum octane rating 95 (RON)

### Electrical system:

**Alternator:**

- three-phase alternator 280 W

**Battery:**

- 12 V / 10 Ah, maintenance-free

### 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 cast aluminium side elements, bolted-on aluminium rear section

**Front wheel location / suspension:**

- Upside-down front fork, Ø 45 mm, rebound and compression damping adjustable

**Rear wheel location / suspension:**

- Cast aluminium dual swing arm, Air Damping System, spring pre-load and damping continuously variable by air pressure

**Travel front/rear:**

- 270 mm / 270 mm

**Wheelbase :**

- 1,500 mm

**Castor :**

- 118 mm

**Steering head angle:**

- 62.5°

**Wheels:**

- Wire spoke wheels

**Rim front:**

- 1.60 x 21"

**Rim rear:**

- 2.50 x 18"

**Tyres front :**

- 90/90 S 21

**Tyres rear:**

- 140/80 S 18

**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 / Weight:

### Length:

- 2,205 mm

### Height (not inc. mirrors):

- 1,255 mm

### Width (inc. mirrors):

- 907 mm

### Seat height, unladen weight:

- 930 mm (low seat: 910 mm)

### Inner leg curve:

- 2,000 mm (low seat: 1,960 mm)

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

- 156 kg

### Dry weight 2):

- 144 kg

### Permitted total weight:

- 335 kg

### Payload (with standard equipment):

- 179 kg

### Usable tank volume:

- 9.5 l

### Reserve:

- approx. 2.0 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: aura white uni

**BMW Motorrad**  
Enduro

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**The Ultimate  
Riding Machine**

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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