

## Technical data sheets BMW Motorrad

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MY 2019

Status: **approved**

### F 850 GS

#### Engine

Type	Water-cooled 4-stroke in-line two-cylinder engine, four valves per cylinder, two overhead camshafts, dry sump lubrication
Bore / stroke	84 mm x 77 mm
Capacity	853 cc
Rated output	70 kW (95 hp) at 8,250 rpm OE output reduction 35 kW (48 hp) at 6,500 rpm
Max. torque	OE RON91 unleaded regular fuel: 66 kW (90 hp) at 8,000 rpm 92 Nm at 6,250 rpm OE output reduction: 63 Nm at 4,500 rpm OE RON91 unleaded regular fuel: 86 Nm at 6,250 rpm
Compression ratio	12.7 : 1
Mixture control	Electronic injection
Emission control	Closed-loop 3-way catalytic converter, emission standard EU-4

#### Performance / fuel consumption

Maximum speed	over 200 km/h
Fuel consumption per 100 km based on WMTC	4,1 l
CO <sub>2</sub> emission based on WMTC	98 g/km
Fuel type	Unleaded super, minimum octane number 95 (RON) OE unleaded regular fuel, minimum octane number 91 (RON)

#### Electrical system

Alternator	permanent magnetic alternator 416 W (nominal power)
Battery	12 V / 10 Ah, maintenance-free

#### Power transmission

Clutch	Multiple-disc wet clutch (anti hopping), mechanically operated
Gearbox	Constant mesh 6-speed gearbox integrated in crankcase
Drive	Endless O-ring chain with shock damping in rear wheel hub

#### Chassis / brakes

Frame	Bridge-type frame, steel shell construction
Front wheel location / suspension	Upside-down telescopic fork, $\varnothing$ 43 mm
Rear wheel location / suspension	Cast aluminium dual swing arm, central WAD spring strut, spring pre-load hydraulically adjustable, rebound damping adjustable
Suspension travel, front / rear	230 mm / 215 mm (OE: suspension lowering kit 210 mm / 195 mm)
Wheelbase	1,593 mm
Castor	126 mm
Steering head angle	62°
Wheels	Cross spoke wheels
Rim, front	2.15 x 21"
Rim, rear	4.25 x 17"
Tyre, front	90/90 21
Tyre, rear	150/70 R17
Brake, front	Dual disc brake, floating brake discs, $\varnothing$ 305 mm, double-piston floating caliper
Brake, rear	Single disc brake, $\varnothing$ 265 mm, single-piston floating caliper
ABS	BMW Motorrad ABS (disengageable)

#### Dimensions / weights

Seat height	860 mm (OE suspension lowering kit: 815 mm, OE low seat: 835 mm, OE comfort seat: 875 mm, OA rallye seat: 890 mm)
Inner leg curve	1,910 mm (OE suspension lowering kit: 1,830 mm, OE low seat: 1,870 mm, OE comfort seat: 1,950 mm, OA rallye seat: 1,980 mm)
Usable tank volume	15 l
Reserve	approx. 3.5 l
Length	2,305 mm
Height (excl. mirrors)	1,356 mm
Width (incl. mirrors)	922 mm
Unladen weight, road ready, fully fuelled 1)	229 kg
Permitted total weight	445 kg
Payload (with standard equipment)	216 kg

#### Equipment (in parts)

Standard equipment	BMW Motorrad ABS, ASC (Automatic Stability Control), Riding modes Rain / Road, On-board computer Pro, LED headlight, LED tail light, 12 V power socket, adjustable handbrake lever and clutch lever, engine guard
Optional equipment (OE)	Dynamic ESA (Electronic Suspension Adjustment), DTC (Dynamic Traction Control), Riding modes Pro (Dynamic / Enduro / Enduro Pro), LED daytime running light, Connectivity incl. 6.5" full color TFT display, Gear shift assistant Pro, Keyless Ride, RDC (tyre pressure control)
Optional accessories (OA)	Vario luggage system, tank bag, bag for pillion seat, hand protectors, adjustable foot brake and gear lever, higher handle bar, BMW Motorrad Navigator, LED auxiliary headlights

Technical data relate to the unladen weight (DIN)

1) According to guideline VO (EU) 168/2013 with all fluids, with standard equipment and fuelled with at least 90% of usable tank volume.