

Technical data sheets BMW Motorrad

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Status: APPROVED

MY 2019

F 850 GS Adventure

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	197 km/h
Fuel consumption per 100 km based on WMTC	4.1 l
CO ₂ 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	124.6 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	875mm (OE suspension lowering kit: 815 mm, OE low seat: 835 mm, OE double seat: 860 mm, OA rallye seat: 890 mm)
Inner leg curve	1,950 mm (OE suspension lowering kit: 1,830 mm, OE low seat: 1,870 mm, OE double seat: 1,910 mm, OA rallye seat: 1,980 mm)
Usable tank volume	23 l
Reserve	approx. 3.5 l
Length	2,300 mm
Height (excl. mirrors)	1,437 mm
Width (incl. mirrors)	939 mm
Unladen weight, road ready, fully fuelled 1)	244 kg
Permitted total weight	455 kg
Payload (with standard equipment)	211 kg

Equipment (in parts)

Standard equipment	BMW Motorrad ABS, ASC (Automatic Stability Control), Riding modes Rain / Road, On-board computer Pro, LED headlight, Dynamic brake light, anti hopping clutch, adjustable touring windshield, 12 V power socket, adjustable handbrake lever and clutch lever, adjustable footbrake lever and gear shift lever, engine guard plastic, hand protectors, comfort seat, Enduro footrests, stainless steel luggage rack for aluminium topcase
Optional equipment (OE)	Dynamic ESA (Electronic Suspension Adjustment), DTC (Dynamic Traction Control), Riding modes Pro (Dynamic / Enduro / Enduro Pro), LED daytime running light, LED auxiliary headlights, Connectivity incl. 6.5" full color TFT display, Gear shift assistant Pro, Keyless Ride, RDC (tyre pressure control), pannier holders for aluminium panniers, Off-road tires
Optional accessories (OA)	Aluminium luggage system, tank bag, bag for pillion seat, BMW Motorrad Navigator, touring windshield tinted

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.