

Technical data sheets BMW Motorrad

Date: 21.07.2020

MY 2021

Status: approved

F 850 GS Adventure TU

	ECE 0K01	US 0K03	ECE 0K01 ROZ91 --> country specific
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 OE RON91 unleaded regular fuel: 66 kW (90 hp) at 8,000 rpm	66 kW (90 hp) at 8,000 rpm	66 kW (90 hp) at 8,000 rpm country specs China, Brazil: 59 kW (80 hp) at 6,250 rpm
Max. torque	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	86 Nm at 6,250 rpm	86 Nm at 6,250 rpm country specs China, Brazil: 90 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-5		
Performance / fuel consumption			
Maximum speed	over 200 km/h OE output reduction 35 kW (48 hp): 171 km/h	197 km/h	197 km/h country specs China, Brazil: 192 km/h
Fuel consumption per 100	4.2 l		
CO ₂ emission based on WMTC	99 g/km		
Fuel type	Unleaded super, minimum octane number 95 (RON) OE Unleaded regular fuel, minimum octane number 91 (RON)	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
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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

Dimensions / weights

Seat height	875 mm (OE suspension lowering kit: 805 mm, OE extra low seat: 825 mm, OA low seat: 835 mm, OE double seat: 860 mm, OA rallye seat: 890 mm)
Inner leg curve	1,950 mm (OE suspension lowering kit: 1.810 mm, OE extra low seat: 1.850 mm, OA 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)	248 kg

Permitted total weight	455 kg
Payload (with standard	207 kg

Equipment (in parts)

Standard equipment	6.5" TFT color display incl. connectivity, BMW Motorrad ABS Pro, Riding modes Rain / Road, LED headlight and indicators, adjustable touring windshield, 12 V and USB power socket, engine guard, hand protectors, stainless steel luggage rack
Optional equipment (OE)	Dynamic ESA (Electronic Suspension Adjustment), Riding modes Pro (Dynamic / Enduro / Enduro Pro), LED daytime running light, LED auxiliary headlights, Gear shift assistant Pro, Keyless Ride, RDC (tyre pressure control), Intelligent emergency call
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.**

(only OE-USPs compared to competition)