

## Technical data sheets BMW Motorrad

Date: 19.09.2019 MY 2020  
Status: approved

### R 1250 GS Adventure (0J51/0J53)

#### Engine

Type	Air/liquid-cooled four stroke flat twin engine, double overhead camshaft, one balance shaft and variable engine timing system BMW ShiftCam.
Bore / stroke	102,5 mm x 76 mm
Capacity	1.254 ccm
Rated output	100 kW (136 PS) at 7.750 U/min
Max. torque	143 Nm at 6.250 U/min
Compression ratio	12.5 : 1
Mixture control	Electronic intake pipe 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	4,75 l
CO <sub>2</sub> emission based on WMTC	110 g/km
Fuel type	Unleaded super, octane number 95 (RON), adaptive fuel quality regulation (91 to 98 RON)

#### Electrical system

Alternator	three-phase alternator (510 watts nominal power)
Battery	12 V / 11,8 Ah, maintenance-free

#### Power transmission

Clutch	oil lubricated clutch, hydraulically operated
Gearbox	Constant mesh 6-speed gearbox with helical gear teeth
Drive	Shaft drive

#### Chassis / brakes

Frame	Two-section frame, front- and bolted on rear frame, load-bearing engine
Front wheel location / suspension	BMW Motorrad Telelever; stanchion diameter 37 mm, central spring strut
Rear wheel location / suspension	Cast aluminium single-sided swing arm with BMW Motorrad Paralever; WAD strut (travel-related damping), spring pre-load hydraulically adjustable (continuously variable) at handwheel, rebound damping adjustable at handwheel
Suspension travel, front / rear	210 mm / 220 mm
Wheelbase	1.504 mm
Castor	95,4 mm
Steering head angle	65,1°
Wheels	Cross spoke wheels
Rim, front	3,00 x 19"
Rim, rear	4,50 x 17"
Tyre, front	120/70 R 19
Tyre, rear	170/60 R 17
Brake, front	Dual disc brake, floating brake discs, diameter 305 mm, 4-piston radial calipers
Brake, rear	Single disc brake, diameter 276 mm, double-piston floating caliper
ABS	BMW Motorrad Integral ABS (part-integral), disengageable

#### Dimensions / weights

Seat height	890 / 910 mm
Inner leg curve	1.950 / 1.990 mm
Usable tank volume	30 l
Reserve	ca. 4 l
Length (over mud guard)	2.270 mm
Height (over windshield)	1.460 mm
Wide (over hand guard)	980 mm
Unladen weight, road ready, fully fuelled 1)	268 kg
Permitted total weight	485 kg
Payload (with standard equipment)	217 kg

#### Equipment (in parts)

Standard equipment	TFT rider information display with connectivity, full LED headlight, ASC (Automatic Stability Control), 2 riding modes (Rain, Road) and HSC (Hill Start Control),
Optional equipment (OE)	Dynamic ESA (Electronic Suspension Adjustment with automatic load levelling and automatic damping mode), automatic tyre pressure control RDC, keyless ride, special machined parts.
Optional equipment, specials	Riding Mode Pro, includes the additional modes Dynamic, Dynamic Pro, Enduro and Enduro Pro, ABS Pro and Dynamic Brake Light (depending on country regulations), hill start control pro HSC pro, dynamic brake assistant DBC and dynamic traction control DTC, style-variants HP and Exclusive.
Optional accessories (OA)	Aluminium Luggage System, Enduro underneath engine protection, tinted windshield, Enduro headlamp-guard, adjustable rider footrest.

#### 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)