

Technical data sheets BMW Motorrad

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Status: approved

MY 2019

R 1250 RS

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 cc
Rated output	100 kW at 7,750 rpm
Max. torque	143 Nm at 6,250 rpm
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/100km
CO ₂ 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 508 W (nominal power)
Battery	12 V / 12 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	Telescopic Upside-Down fork; stanchion diameter 45 mm
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 140 mm / 140 mm
Suspension travel, front / rear	140 mm / 140 mm
Wheelbase, normal load with rider	1,530 mm
Castor, normal load with rider	110.9 mm
Steering head angle, unloaded	62.3°
Wheels	Cast aluminium wheels
Rim, front	3.50" x 17"
Rim, rear	5.50" x 17"
Tyre, front	120/70 ZR 17
Tyre, rear	180/55 ZR 17
Brake, front	Dual disc brake, floating brake discs, diameter 320 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	820 mm (OE low seat: 760 mm; OE sport seat: 840 mm)
Inner leg curve	1,840 mm (OE low seat: 1,720 mm; OE sport seat: 1.875 mm)
Usable tank volume	approx. 18 l
Reserve	approx. 4 l
Length	2,202 mm
Height (at windshield)	min. 1,255 mm; max. 1,340 mm
Width (incl. mirrors)	925 mm
Unladen weight, road ready, fully fuelled 1)	243 kg
Permitted total weight	460 kg
Payload (with standard equipment)	217 kg

Equipment (in parts)

Standard equipment	Full-LED headlight, ASC Automatic stability control), 2 riding modes (Rain, Road), TFT-Display with connectivity, HSC (Hill start control)
Optional equipment (OE)	Dynamic ESA (electronic suspension adjustment), Riding Modes Pro incl. DTC (Dynamic Traction Control), ABS Pro, HSC Pro und DBC (Dynamic Brake Control), Daytime running lights, cruise control, Keyless Ride, Shift assist pro, intelligent emergency call, Option 719 billet packs, Option 719 wheels, HP sport silencer
Optional accessories (OA)	hardcase panniers with painted cover, top box with painted cover, tinted windshield, machined and adjustable rider footrest pegs, machined footbrake- and gear shift lever, machined hand lever brake and clutch, auxiliary headlamps, engine spoiler

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.