

DATA & EQUIPMENT

THE BMW S 1000 R

Carries the DNA from racing both in theory and in practice – the figures prove it. Fully fuelled and fully equipped, including M package with 199 kg at 165 hp. No-one can match that in a hurry.



TECHNICAL DATA

Engine

Type	Oil/water-cooled four-cylinder four-stroke in-line engine with four valves per cylinder
Bore / stroke	80 mm x 49.7 mm
Capacity	999 cc
Rated output	121 kW (165 hp) at 11,000 rpm
Max. torque	114 Nm at 9,250 rpm
Compression ratio	12.5 : 1
Mixture control	Electronic intake pipe fuel injection, BMS-K+ electronic engine management with overrun cut-off, twin-spark ignition: BMS-O with e-gas
Emission control	Regulated three-way catalytic converter

Performance / fuel consumption

Maximum speed	Over 200 km/h
Fuel consumption per 100 km based on WMTC	6.2 l
CO2 emission based on WMTC	144 g/km
Fuel type	Super plus lead-free (max. 5 % ethanol, E5) / ROZ 98 / 93 AKI

Electrical system

Alternator	Permanent magnet generator with 450 W (nominal capacity)
Battery	12 V / 8 Ah, maintenance-free

Power transmission

Clutch	Multi-disc oil bath (anti-hopping) with self-reinforcement
Gearbox	Synchromesh six-speed gearbox, built into engine housing
Drive	Chain 525 17/45
Traction control	DTC

Chassis / brakes

Frame	Bridge-type aluminium laminate frame with load-bearing engine
Front wheel location / suspension	Upside-down telescopic fork with a diameter of 45 mm, spring preload and adjustable rebound and compression stage
Rear wheel location / suspension	Aluminium underbeam swinging arm, Full-Floater Pro, central shock absorber, adjustable rebound and compression damping and adjustable spring preload
Suspension travel, front / rear	120 mm / 117 mm
Wheelbase	1,450 mm
Castor	96 mm
Steering head angle	65,8°
Wheels	Cast aluminium
Rim, front	3.50 x 17"
Rim, rear	6.00 x 17"
Tyre, front	120/70 ZR 17
Tyre, rear	190/55 ZR 17 (200/55 ZR 17)
Brake, front	Twin-disc brake with a diameter of 320 mm, four-piston fixed calliper
Brake, rear	Single disc brake with a diameter of 220 mm, one-piston floating calliper
ABS	BMW Motorrad Integral ABS, partial integral

Dimensions / weights

Seat height	830 mm (OE driver seat low: 810 mm, OE driver seat high: 850 mm)
Inner leg curve	1,835 mm (OE low rider seat: 1,815 mm, OE high rider seat: 1,858 mm)
Usable tank volume	16.5 l
Reserve	approx. 4 l
Length (over side case)	2,090 mm
Height (at windshield)	1,115 mm
Width (incl. side cases)	812 mm
Unladen weight, road ready, fully fuelled	199 kg (with M package including M carbon wheels: 196 kg) ¹⁾
Permitted total weight	407 kg
Payload (with standard equipment)	208 kg

¹⁾ According to Guideline (EU) 168/2013 with all operating fluids, with standard equipment and refuelled with min. 90% of the usable tank capacity.