

Phil Hawksley's BM Bikes

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BMW F650GS Dakar Specifications

Start of Production	1999
End of Production	N/A
Numbers Produced	N/A
Price (2003) UK £	5,395
US \$	8,690 / 9,190 with ABS



Engine

Motor Type	Water cooled, single cylinder, 4 stroke
Bore x Stroke	100 x 83 mm (3.93 x 3.26 in)
Capacity	652 cc
Rated Output	50 bhp (37 KW) at 6,500 rpm (performance reduction 34 bhp (25 Kw at 6,000 rpm possible)
Max Torque	60 Nm / 44 ft lb at 5,000 rpm (performance reduction: 51 Nm / 38 ft lb at 3,750 rpm)
Compression Ratio	11.5 : 1
Valves Per Cylinder	4
Valve Control	DOHC
Mixture Control/Engine Management	Electronic intake pipe injection / BMW engine management
Emission Control	Closed loop 3 way catalytic converter
Fuel type	Unleaded regular grade fuel, minimum octane rating 91 (RON)

Power Transmission

Clutch	Multiple disc clutch in oil bath, mechanically operated
Gearbox	Constant mesh 5 speed gearbox integrated in the crankcase
Gearbox Ratio's	2.750 / 1.750 / 1.310 / 1.050 / 0.880 : 1
Final Drive	2.94 : 1
Drive	Endless O ring chain with jerk damper in the rear wheel hub

Electrical System

Ignition	Electronic ignition
Alternator	400 W three phase alternator
Battery	12V / 12 ah

Chassis

Type of Frame	Bridging frame consisting of steel profiles with rear frame fastened with screws
Front wheel suspension	Telescopic fork, stanchion diameter 41 mm, fork stabiliser
Rear wheel suspension	Box section dual swinging arm consisting of steel profiles, central strut steered via lever system, spring pre load adjustable to continuously variable levels by means of a hydraulic handwheel, rebound adjustable damping
Travel Front/Rear	210 / 210 mm (8.26 / 8.26 in)
Wheels	Wire spoked wheels
Wheel Rims, Front	1.60 x 21
Wheel Rims, Rear	3.00 x 17
Tyres, Front	90/90 x S 21
Tyres, Rear	130/80 x S 17
Brakes, Front	Single disc brake , diameter 300 mm (11.8 in), double piston floating caliper
Brakes, Rear	Single disc brake, diameter 240 mm (9.45 in), 1 piston floating caliper
ABS	Special equipment BMW Motorrad ABS (disconnectable)

Dimensions/Weights

Length x Width	2189 x 910 (86.18 x 35.82 in)
Wheel Base (in normal position)	1489 mm (58.62 in)
Seat Height	870 mm (34.25 in)
Castor (in normal position)	123.3
Steering Head Angle (in normal position)	60.8 degrees
Unladen Weight with Full Tank	192Kg / 423 lb
Dry Weight	177.2 Kg / 390 lb
Permitted Total Weight	380 Kg / 837 lb
Payload (with standard equipment)	187 Kg / 412 lb
Fuel Consumption over 100 Km @ constant 90Kph	3.4 litres / 83 mpg / 69 mpg US
Fuel Consumption over 100 Km @ constant 120Kph	5.0 litres / 56 mpg / 47 mpg US
Useable Tank Volume	17.3 litres / 3.80 UK gal / 4.57 US gal
Reserve	Approx. 4.5 litres / .99 UK gal / 1.19 US gal
Maximum Speed	Approx.166 Kph / 103 mph (with performance reduction: approx 137 Kph / 85 mph)