

TECHNICAL DATA

F 450 GS		
Engine		
Capacity	cc	420
Bore/stroke	mm	72 x 51.6
Output	hp	48 @ 8,750 rpm
Torque	ft-lbs.	32 @ 6,750 rpm
Type		Water-cooled, two-cylinder, four stroke in-line motor with four valves per cylinder, overhead camshafts and a 135 degree crankshaft offset
Compression		13.0:1
Fuel		Premium unleaded 95 RON
Valves per cylinder		4
Ø intake / exhaust valve dia.	mm	29.0 / 24.3
Ø throttle valve	mm	38
Engine control		BMS-Z with throttle-by-wire
Emission control		Closed loop 3-way catalytic converter EU5+

Electrical system

Generator	W	334
Battery	V/Ah	12 / 8
Headlight		LED
Rear light		LED
Starter	W	700

Power transmission

Clutch		Multi-disk wet clutch, hydraulically operated
Gearbox		Claw-shift 6-speed manual, chain drive
Transmission ratios	I	2.765
II		2.062
III		1.588
IV		1.286
V		1.095
VI		0.955
Primary ratio		2.025
Secondary ratio		3.43

Chassis		
Frame construction type		Steel tubular space frame, engine centrally mounted
Front wheel suspension		KYB Upside-down 43 mm telescopic fork Rebound and compression adjustable
Rear wheel suspension		Aluminum swing arm, KYB WAD shock, pre-load and rebound adjustable
Spring travel, front/rear	inches	7.1 / 7.1
Wheel castor	inches	4.5
Wheelbase	inches	57.7
Steering head angle	degrees	28.1
Brakes, front		Single 310 mm disk brake with 4-piston monobloc fixed caliper
Brakes, rear		Single 240 mm disk brake with 1-piston floating caliper.
ABS		BMW Motorrad ABS Pro (lean angle optimized)
Wheels		Aluminum cross-spoked wheels
Wheel size front / rear	inches	2.50 x 19 / 3.50 x 17
Tire size front / rear		100/90-19 / 130/80-17

Dimensions and weights

Total length	inches	85.1
Total width incl. bar end mirrors	inches	34.2
Seat height	inches	33.3
Ground clearance	inches	
DIN unladen weight, road ready	lbs.	393
Permitted total weight	lbs.	782
Fuel tank capacity	gallons	3.6

Performance figures

Fuel consumption (WMTC)	mpg	61.9
CO2	g/km	88
Acceleration 0-62 mph (100kph)	seconds	5.9
Top speed	mph	102