

Two-thirds of the earth is water. Bummer.



Motorcycles

The new F 650 GS:

The lightweight alternative for conquering the planet.

*Actual price determined by retailer.

Price excludes taxes, license, options, and handling charges. MSRP includes equalized freight charges.

MSRP: \$8,100. ABS and Dakar versions are \$8,600.*

New Features

- All F 650 GS motorcycles are manufactured at BMW's Berlin-Spandau motorcycle plant with improved power unit from Austrian engine supplier Bombardier-Rotax.
- More horsepower (to 50HP @ 6,500 rpm) and torque (to 44 lb. ft. @ 5,000 rpm).
- First single-cylinder bike to be fitted with Digital Motor Electronics instead of carburetors, raising performance but also fuel economy.
- ABS anti-lock brakes now available as an option (switch allows ABS to be turned off for dirt-riding) – the first and only 650cc class bike to have ABS.
- Aggressive 'GS' styling for the entire machine including cockpit instruments, fairing and windshield design, bodywork and fenders.
- Redesigned bridge-type frame is stronger and allows fuel tank to be positioned under the seat, providing a lower center of gravity and considerably enhanced on- and off-road handling.
- New cylinder head and intake system borrowed from BMW's high-performance six-cylinder M3 automobiles.
- Rerouted under-the-seat twin-muffler system in stainless steel with three-way catalytic converter reduces harmful exhaust emissions and also decreases the rear bike width by 5 inches.
- Special F 650 GS Dakar version will be issued in a non-ABS off-road sport configuration, including 21" front wheel, higher seat height and longer suspension travel in special white-with-black paint scheme.

Engine

Type	Water-cooled single-cylinder 4-stroke
Bore x stroke	100.0 mm x 83.0 mm
Displacement	652 cc
Horsepower	50 Bhp @ 6,500 rpm
Torque	44 lb.-ft. @ 5,000 rpm
Compression ratio	11.5:1
Valve gear	DOHC, chain-driven
Valves	36 mm intake /31 mm exhaust
Valves per cylinder	Four
Carburetion	BMW Motronic System (BMS)
Fuel tank	Under the seat, high-impact plastic
Fuel capacity	4.56 U.S. gallons (17.3 liters) including 1.2 gal. (4.5 liters) reserve
Charging system	14V, 20 Amp Alternator (400 W)
Battery	12V 12 Amp/h

Drivetrain

Primary drive	Straight-cut gear 37/72=1:1.946
Clutch	Multi-plate in oil bath
Gear ratios	1st gear: 2.75:1 4th gear: 1.05:1 2nd gear: 1.75:1 5th gear: 0.88:1 3rd gear: 1.31:1
Drive system	Endless O-ring roller chain drive 112 links (5/8" x 1/4")
Final drive	16/47 (sprocket/chainwheel) =1:2.937

Frame and Suspension

Frame	Bridge-type, bolted-on rear section
Front suspension	41 mm telescopic fork w/stabilizer
Travel/dimensions	6.69 inches (170 mm) total travel
Rear suspension	Central spring strut actuated by lever-linkage, adjustable.
Travel/dimensions	6.49 inches (165 mm) total travel, 40 stage adjustable spring preload.

Brakes

Actuation method	Hydraulic, DOT 4 fluid type
Front brakes	One 4-piston caliper, floating mount, w/wear compensation
Front rotors	Single 11.8-inch (300 mm) fixed rotor
Rear brake	One 2-piston caliper, floating mount
Rear rotor	Single 9.45-inch (240 mm) fixed rotor

Wheels and Tires

Front wheel	2.15 x 19 MT, wire spoked wheel
Rear wheel	3.00 x 17 MT, wire spoked wheel
Front tire	100/90 - 19 57 tube type
Rear tire	130/80 - 17 65 tube type

Dimensions

Overall length	85.7 inches (2175 mm)
Overall width	35.8 inches (910 mm) (over mirrors)
Wheelbase	58.3 inches (1480 mm) (unladen)
Ground clearance	5.8 inches (146 mm) (unladen)
Seat height	30.7 inches (780 mm)
Handlebar width	30.9 inches (785 mm)
Steering angle	60.8°
Weight – wet	425 lbs. (193 kg)
Maximum load	838 lbs. (380 kg) GVWR
Top speed	103 mph (166 km/h)

Available Colors

Titanium Blue Metallic	Red	Mandarin
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Optional Equipment

- ABS anti-lock brakes are optional for the F 650 GS.
- Special seats reduce seat height to 29.5 inches (750 mm) or increase it to 32.3 inches (820 mm).
- Heated handlebar grips.
- New system saddlebags and mounts (extendable from 20 to 30 liters of capacity).
- Optional and single-key luggage coding
- Watertight inner bags. • Top case with 31-liter volume.
- Hand protectors. • Handlebar impact padding.
- High-rise touring windshield • Engine protection bars.
- On-board computer. • Accessory plug.

* Note: All specs are for standard non-ABS F 650 GS. F 650 GS DAKAR will vary slightly in dimensions and weight.

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