

F 650 GS



It loves dirt roads. It loves stretches of asphalt. Schizophrenic? Nah, just extremely versatile. And pretty damn tough. (Hey, it's the bike that won the 6,000-mile 18-day Paris-Dakar Rally.) From its DOHC, four-valve engine with electronic engine management system to its newly positioned fuel tank beneath the seat to the first optional antilock breaks ever offered on a single, there's no better way to get in touch with your adventurous side. Or your mellow side. Either way, a ride on the F 650 GS will be highly therapeutic.

Colors

F 650 GS

Red
Mandarin
Titan Blue Metallic

F 650 GS DAKAR

White with Black Dakar race graphics

Standard Equipment

Water-cooled, single-cylinder, 4-stroke, 652cc engine
Electronic Fuel Injection
Under seat mounted stainless steel exhaust with threeway catalytic converter
Wire spoke wheels with tube-type tires
Braced handlebars
Predrilled handlebars for heated grip installation
Integrated ignition and steering lock
Digital clock
Main and side stand
Aluminum engine protection hoops

MSRP

\$8,100* – Standard
\$8,600* – w/ABS
\$8,600* – F 650 GS Dakar

*Actual retail price determined by retailer. Price excludes taxes, license, options, and handling charges. MSRP includes equalized freight charges. Details and specifications are subject to change. All colors not available in every market. Consult your Authorized BMW Motorcycle Retailer for availability.



Motorcycles

Engine Specifications

	F 650 GS	F 650 GS DAKAR
Type	Water-cooled single-cylinder 4-stroke	Water-cooled single-cylinder 4-stroke
Bore x stroke	100.0 mm x 83.0 mm	100.0 mm x 83.0 mm
Displacement	652 cc	652 cc
Horsepower	50 bhp @ 6,500 rpm	50 bhp @ 6,500 rpm
Torque	44 lb.-ft. @ 5,200 rpm	44 lb.-ft. @ 5,200 rpm
Compression ratio	11.5:1	11.5:1
Valve gear	DOHC, chain-driven	DOHC, chain-driven
Valves	36 mm intake / 31 mm exhaust	36 mm intake / 31 mm exhaust
Valve timing (measured at 3 mm valve clearance)	Intake opens 17 degrees before TDC Intake closes 45 degrees after BDC Exhaust opens 47 degrees before BDC Exhaust closes 15 degrees after TDC	Intake opens 17 degrees before TDC Intake closes 45 degrees after BDC Exhaust opens 47 degrees before BDC Exhaust closes 15 degrees after TDC
Valves per cylinder	Four	Four
Camshafts	Dual overhead	Dual overhead
Engine oil capacity	2.4 quarts, SF, SG, or SH with suffixs CD or CE permitted	2.4 quarts, SF, SG, or SH with suffixs CD or CE permitted
Engine oil filter	Micronic paper element w/ pressure override	Micronic paper element w/ pressure override
Carburetion	n/a	n/a
Ignition	Digital BMS compact system	Digital BMS compact system
Fuel demand	Unleaded, premium, 92 (AKI)	Unleaded, premium, 92 (AKI)
Fuel tank	Under the seat, high-impact plastic	Under the seat, high-impact plastic
Fuel capacity	4.56 U.S. gallons (17.3 liters), including 1.0 gal. (4.01 liters) reserve	4.56 U.S. gallons (17.3 liters), including 1.0 gal. (4.01 liters) reserve
Air filter	Paper filter	Paper filter
Charging system	14V, 20 Amp Alternator (400 W)	14V, 20 Amp Alternator (400 W)
Battery	12V 12 Amp/h	12V 12 Amp/h
Cooling system	Water cooled	Water cooled



Drivetrain

	F 650 GS	F 650 GS DAKAR
Primary drive	Straight-cut gear 37 / 72 = 1:1.946	Straight-cut gear 37 / 72 = 1:1.946
Clutch	Multi-plate in oil bath	Multi-plate in oil bath
Gear ratios	1st gear: 2.75:1 2nd gear: 1.75:1 3rd gear: 1.31:1 4th gear: 1.05:1 5th gear: 0.88:1	1st gear: 2.75:1 2nd gear: 1.75:1 3rd gear: 1.31:1 4th gear: 1.05:1 5th gear: 0.88:1
Drive system	Endless O-ring roller chain drive 112 links (5/8" x 1/4")	Endless O-ring roller chain drive 112 links (5/8" x 1/4")
Final drive	16 / 47 (sprocket / chainwheel) = 1:2.937	16 / 47 (sprocket / chainwheel) = 1:2.937

Frame and Suspension

	F 650 GS	F 650 GS DAKAR
Frame	Bridge-type, bolted-on rear section	Bridge-type, bolted-on rear section
Front suspension	41mm telescopic fork with stabilizer	41mm telescopic fork with stabilizer
Travel/dimensions	6.69 inches (170 mm) total travel	8.3 inches (210 mm) total travel
Rear suspension	Central spring strut actuated by lever-linkage, adjustable	Central spring strut actuated by lever-linkage, adjustable
Travel/dimensions	6.49 inches (165 mm) total travel, 40 stage adjustable spring preload	8.29 inches (210 mm) total travel, 40 stage adjustable spring preload

Brakes

	F 650 GS	F 650 GS DAKAR
Brake system	Hydraulically operated single disc-brake, ABS optional	Hydraulically operated single-disc brake
Front brakes	One 2-piston caliper, floating mount, w/ wear compensation	One 2-piston caliper, floating mount, w/ wear compensation
Front rotor	Single 11.8 inch (300 mm) fixed rotor	Single 11.8 inch (300 mm) fixed rotor
Actuation method	Hydraulic, DOT 4 fluid type	Hydraulic, DOT 4 fluid type
Rear brake	One 1-piston caliper, floating mount	One 1-piston caliper, floating mount
Rear rotor	Single 9.45 inch (240 mm) fixed rotor	Single 9.45 inch (240 mm) fixed rotor
Actuation method	Hydraulic, DOT 4 fluid type	Hydraulic, DOT 4 fluid type

Wheels and Tires

	F 650 GS	F 650 GS DAKAR
Front wheel	2.50 x 19 MT, wire spoked wheel	1.60 x 21 MT, wire spoked wheel
Rear wheel	3.00 x 17 MT, wire spoked wheel	3.00 x 17 MT, wire spoked wheel
Front tire	100/90 x 19 57 tube type	90/90 x 21 57 tube type
Rear tire	130/80 x 17 65 tube type	130/80 x 17 65 tube type

Dimensions and Weight

	F 650 GS	F 650 GS DAKAR
Overall length	82.7 inches (2101 mm)	82.7 inches (2101 mm)
Overall width	35.0 inches (890 mm) (over mirrors)	35.0 inches (890 mm) (over mirrors)
Wheelbase	58.3 inches (1480 mm) (unladen)	58.3 inches (1480 mm) (unladen)
Ground clearance	5.8 inches (146 mm) (unladen)	5.8 inches (146 mm) (unladen)
Seat height	30.7 inches (780 mm)	30.7 inches (780 mm)
Handlebar width	30.9 inches (785 mm)	30.9 inches (785 mm)
Steering angle	60.8 degrees	60.8 degrees
Front wheel trail	4.45 inches (113 mm) (laden)	4.45 inches (113 mm) (laden)
Weight - dry	n/a	n/a
Weight - wet	425 lbs. (193 kg.)	425 lbs. (193 kg.)
Maximum load	838 lbs. (380 kg.) GVWR	838 lbs. (380 kg.) GVWR
Wheel load limits	260 lbs. (118 kg.) 578 lbs. (262 kg.)	260 lbs. (118 kg.) 578 lbs. (262 kg.)

Top Speed

F 650 GS	F 650 GS DAKAR
103 mph (166 km/h)	103 mph (166 km/h)

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