



2008 SPECIFICATIONS¹

LIGHTNING[®] XB12S

DIMENSIONS

Overall Length ⁵	76.20 in. (1935.48 mm)
Overall Width ⁸	29.70 in. (754.38 mm)
Seat Height ⁷	30.10 in. (764.54 mm)
Ground Clearance ⁶	4.35 in. (110.49 mm)
Rake ⁷ (steering head)	21°
Fork Angle ⁷	21°
Lean Angle ⁹ :	
Soft Contact, Right	42°
Soft Contact, Left	42°
Hard Contact, Right	50°
Hard Contact, Left	48°
Trail ⁷	3.30 in. (83.82 mm)
Wheelbase ⁶	52 in. (1320.80 mm)
Tires ⁴ (Pirelli [®]):	
Front	120/70 ZR-17
Rear	180/55 ZR-17
Fuel Capacity	3.82 gal. (14.46 L)
Reserve Fuel Capacity	0.75 gal. (2.84 L)
Fuel Economy ² (EPA urban/highway test)	48/65 mpg (4.90/3.62 L/100 km)
Weight:	
Dry Weight	395 lbs. (179.17 kg)
Gross Vehicle Weight Rating	850 lbs. (385.55 kg)
Load Capacity	391 lbs. (177.35 kg)

ENGINE

Engine	Air/oil/fan-cooled, 4-stroke, 45° V-Twin
Valve Train	OHV, two valves per cylinder, self-adjusting
Bore x Stroke	3.50 in. x 3.81 in. (88.90 mm x 96.82 mm)
Displacement	73.40 cu. in. (1203 cc)
Compression Ratio	10.0:1
Fuel Delivery	49 mm down draft DDFI III fuel injection
Intake	Zero-resistance airbox
Exhaust	Tuned, tri-pass resonance chamber with InterActive valve and mass-centralized mounting
Torque (North America per SAE J607)	84 ft. lbs. @ 6000 rpm (113.90 NM @ 6000 rpm)
Horsepower (North America per SAE J607)	103 hp @ 6800 rpm
Lubrication	Dry sump
Oil Capacity	2.50 qts. (2.37 L)
Oil Filtration	Screw-on disposable element

DRIVETRAIN

Primary Drive	Chain, 1.500:1 (57/38) ratio
Final Drive ³	Constant path, 14 mm pitch aramid-reinforced Goodyear Hibrex [®] belt with Flexten [®] Plus technology, 2.407:1 (65/27) ratio
Clutch	Wet, multi-plate, compensated, reduced lever effort
Transmission	5-speed, helical gear
Gear Ratios:	
1st	2.648
2nd	1.892
3rd	1.407
4th	1.166
5th	1.000

CHASSIS⁴

Frame	Aluminum frame with Uniplanar [™] powertrain vibration isolation system, fuel in frame
Front Fork	43 mm Showa [®] inverted forks with adjustable compression damping, rebound damping and spring preload
Rear Shock	Showa [®] coil-over monoshock with remote, under-seat reservoir and adjustable compression damping, rebound damping and spring preload
Wheels:	Cherry Bomb Translucent or Designer Black Powdercoat
Front	6-spoke, ZTL [™] cast aluminum, 3.50 in. x 17 in. (88.90 mm x 431.80 mm)
Rear	6-spoke, cast aluminum, 5.50 in. x 17 in. (139.70 mm x 431.80 mm)
Brakes:	
Front	ZTL [™] -type brake, 6-piston, fixed caliper, 375 mm single-sided, inside-out, stainless steel, floating rotor
Rear	Single-piston, floating caliper; 240 mm stainless steel, fixed rotor
Suspension Travel:	
Front Wheel	4.72 in. (119.89 mm)
Rear Wheel	5.06 in. (128.52 mm)

ELECTRIC

Battery (per Battery Council International Rating)	Sealed lead acid, maintenance-free, 12V, 12 amp/hour, 200 cca
Charging	30-amp, permanent magnet, single-phase alternator with solid-state regulator (405W @3000 rpm, 405W peak)
Starting	1.2 kW electric with solenoid shift starter motor engagement
Lights (as per country regulation):	
Headlamp (twin quartz halogen [H7])	55-watt low beam, 55-W high beam
Tail/Stop Lights	5W/21W
Turn Signal Lights	10W manual canceling
License Plate Light	5W

INSTRUMENTS

Electronic speedometer, tachometer, odometer; dual tripmeter; high beam, neutral, oil, low fuel (plus, odometer shows miles traveled on reserve), turn signal and engine diagnostic indicator lamps; clock

COLORS⁵

Cherry Bomb Translucid, Valencia Orange Translucid, Midnight Black

WARRANTY

Warranty	24 months (unlimited mileage)
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¹ Specifications for non-U.S. markets might differ. Buell reserves the right to discontinue models or change specifications at any time without incurring any obligations. Vehicle specifications may vary from country to country depending on local laws. Some models are not available in certain countries.

² Based on tests conducted under lab conditions per U.S. E.P.A. test procedures. Mileage will vary depending on personal riding habits, weather conditions, trip length, and vehicle condition.

³ Hibrex[®] and Flexten[®] are registered trademarks of the Goodyear Tire & Rubber Company.

⁴ Showa[®] and Pirelli[®] are registered trademarks of their respective owners.

⁵ Availability may vary from dealer to dealer, and is subject to change without notice.

⁶ Unladen, wet configuration (no rider, all fluids).

⁷ Laden, wet configuration (design rider, all fluids).

⁸ Without mirrors.

⁹ Bottomed-out configuration (100% suspension compression).