

MODEL YEAR 2023 | SPORTSTER® S

Dimensions	RH1250S Sportster® S	Notes
Length	89.4 in. (2,270 mm)	
Overall Width	33.1 in. (840 mm)	
Overall Height	42.7 in. (1,085 mm)	
Seat Height, Laden	28.9 in. (734 mm)	2
Seat Height, Unladen	30.1 in. (765 mm)	
Static Ground Clearance	3.5 in. (90 mm)	
Rake (steering head) (deg)	30	
Fork Angle (deg)	28	
Trail	5.8 in. (148 mm)	
Wheelbase	59.8 in. (1,520 mm)	
Tires, Type	Dunlop® Harley-Davidson Series, radial	
Tires, Front Model	GT503	
Tires, Front Specification	160/70R17 73V	
Tires, Rear Model	GT503	
Tires, Rear Specification	180/70R16 77V	
Fuel Capacity	3.1 gal. (11.8 l)	
Reserve Fuel Capacity, Fuel Injection (warning light)	0.8 gal. (3 l)	
Oil Capacity (w/filter)	4.75 qt. (4.5 l)	
Transmission Capacity	N/A	
Primary Chain Case Capacity	N/A	
Coolant Capacity	2.32 qt. (2.2 l)	
Weight, As Shipped	487 lb. (221 kg)	
Weight, In Running Order	502 lb. (228 kg)	
Gross Vehicle Weight Rating	922 lb. (418 kg)	
Gross Axle Weight Rating, Front	359 lb. (163 kg)	
Gross Axle Weight Rating, Rear	595 lb. (270 kg)	
Luggage Capacity -Volume	N/A	

Engine	RH1250S Sportster® S	Notes
Engine	Revolution® Max 1250T	
Valves	Chain-driven, DOHC, hydraulic self-adjusting lifters, intake & exhaust VVT; four valves per cylinder	
Bore	4.134 in. (105 mm)	
Stroke	2.846 in. (72.3 mm)	
Displacement	76.4 cu in (1,252 cc)	
Compression Ratio	12.0:1	
Fuel System	Electronic Sequential Port Fuel Injection (ESPFI)	3
Air Cleaner	Downdraft intake, tuned velocity stacks, washable filter media	
Exhaust	2-into-1-into-2; catalyst in muffler	
Lubrication System	Semi-Dry Sump	

Drivetrain	RH1250S Sportster® S	Notes
Primary Drive	Gear, 49/89 ratio	
Final Drive	Belt, 34/80 ratio	
Clutch	Mechanical, 8 plate wet, assist & slip, 1090N	
Transmission	6-speed	
Gear Ratios	12.21	
Gear Ratios	9.022	
Gear Ratios	6.994	
Gear Ratios	5.641	
Gear Ratios	4.731	
Gear Ratios	4.131	

Chassis	RH1250S Sportster® S	Notes
Frame	Stressed-member, high strength low alloy steel trellis frame; stamped, cast, and forged junctions; MIG welded; aluminum forged mid-structure	
Swingarm	High strength low alloy steel, tubular sections, stamped x-member, forged axle junctions; MIG	

	welded	
Front Fork	43 mm inverted fork with compression, rebound and spring preload adjustability. Aluminum fork triple clamps.	
Rear Shocks	Linkage-mounted, piggyback monoshock with compression, rebound and hydraulic spring preload adjustability	
Wheels, Optional Style Type	N/A	4
Wheels, Front Type	Aluminum cast, satin black	4
Wheels, Front Width	4.5 in. (114 mm)	
Wheels, Front Height	17 in. (432 mm)	
Wheels, Rear Type	Aluminum cast, satin black	4
Wheels, Rear Width	5 in. (127 mm)	
Wheels, Rear Height	16 in. (406 mm)	
Brakes, Caliper Type	Front: radially mounted, monoblock, 4-piston caliper Rear: floating, single piston caliper	
Brakes, Rotor Type	Front: single rotor, floating, tower- mounted Rear: solid uniform expansion rotor	
Brakes, Front Diameter	12.6 in. (320 mm)	
Brakes, Front Thickness	0.2 in. (6 mm)	
Brakes, Front is dual	No	
Brakes, Rear Diameter	10.2 in. (260 mm)	
Brakes, Rear Thickness	0.2 in. (5 mm)	
Brakes, Anti-Lock Braking System (ABS)	Standard	
Suspension Travel, Front	3.6 in. (92 mm)	
Suspension Travel, Rear	2 in. (51 mm)	

Performance	RH1250S Sportster® S	Notes
Engine Torque Testing Method	J1349	
Engine Torque	94 ft-lb (127 Nm)	5
Engine Torque	6,000	
Power	121 HP / 90 kW @ 7500 rpm	
Lean Angle Testing Method	J1168	
Lean Angle, Right (deg.)	34	
Lean Angle, Left (deg.)	34	
Fuel Economy Testing Method	Estimated City/Hwy	
Fuel Economy	49 mpg (4.8 l/100 km)	6

CO ² Emissions Testing Method	N/A	
CO ² Emissions	N/A	

Electric	RH1250S Sportster® S	Notes
Battery	Sealed, maintenance-free, absorbed glass mat (AGM) battery, 12V, 12Ah, 225 CCA at 0°F	
Charging	Three-phase, 45 Amp system (300 Watts @13 Volts, 1200 rpm, 585 Watts max power @ 13 Volts, 2250 rpm)	
Starting	0.9 kW electric with direct drive starter motor engagement	
Lights (as per country regulation), Headlamp	All LED headlamp, low and high beam with signature position lighting	
Lights (as per country regulation), Tail/Stop	All LED rear lighting	
Lights (as per country regulation), Front Signal Lights	LED Bullet Turn Signals	
Lights, Rear Turn Signals	LED Bullet Turn Signals	
Gauges	4 inch viewable area TFT display with speedometer, gear, odometer, fuel level, clock, trip, ambient temp, low temp alert, side stand down alert, TIP over alert, cruise, range and tachometer indication BT capable - phone pairing to access phone calls, music, navigation (H-D App ONLY)	
Auxiliary Lamps	N/A	
Electric Power Outlet	USB C-Type , Output 5V at 2.4 Amp	
GPS System	N/A	
Reverse Gear	N/A	

Warranty And Service	RH1250S Sportster® S	Notes
Warranty	24 months (unlimited mileage)	7
Service Interval	First 1,000 miles (1,600 km), every 5,000 miles (8,000 km) thereafter	8

Footnotes	RH1250S Sportster® S	

1	<p>Vehicles depicted may differ from vehicles manufactured and delivered. Specifications and prices listed may differ from specifications and prices of vehicles manufactured and delivered. All product descriptions (including depictions, specifications, dimensions, measurements, ratings and competitive comparisons) are based on available information at the time of publication. Although such descriptions are believed correct, errors and changes can occur and complete accuracy cannot be guaranteed. Harley-Davidson may make changes at any time to prices and specifications, and may change or discontinue models, without notice and without incurring any obligation. Attention: Vehicles in the configurations shown and many of the accessories described in this catalog may not be available for sale or use in some locations. Please check with your dealer for complete product details and the latest information. All models feature 6-speed transmission (VRSC™ models and Sportster® models are 5-speed) and carbon fiber belt final drive; multi-plate clutch with diaphragm spring in oil bath; and 2-year unlimited mileage warranty.</p>	
2	<p>Measurement reflects 180 lb. (81.7 kg) operator weight.</p>	
3	<p>Recommended 91 octane or higher fuel (R+M)/2.</p>	
4	<p>Standard and optional wheels may vary by country and region.</p>	
5	<p>Values shown are nominal. Performance may vary by country and region.</p>	
6	<p>The combined fuel economy numbers were derived using a combination of estimated city and highway values. Fuel economy estimates are derived from US EPA exhaust emission certification data on a sample motorcycle from the corresponding family under ideal laboratory conditions. Your actual fuel economy will vary depending on your personal riding habits, road and driving conditions, vehicle condition and maintenance, tire pressure, vehicle configuration (parts and accessories), and vehicle loading (cargo, rider and passenger weight). Break-in mileage may vary.</p>	
7	<p>See motorcycle owner's manual for complete details.</p>	
8	<p>Inspections of certain systems and components are required at 2,500 mile (4,000 km) intervals. See Owner's Manual for full details.</p>	

©2023 H-D or its affiliates. HARLEY-DAVIDSON, HARLEY, H-D, and the Bar and Shield Logo are among the trademarks of H-D U.S.A., LLC. Third-party trademarks are the property of their respective owners.