

MODEL YEAR 2023 | NIGHTSTER™

| Dimensions | RH975 Nightster™ | Notes |
|-------------------------------------------------------|-----------------------------------------------|-------|
| Length | 89.4 in. (2,270 mm) | |
| Overall Width | 33.1 in. (841 mm) | |
| Overall Height | 43.6 in. (1,108 mm) | |
| Seat Height, Laden | 27.1 in. (688 mm) | 2 |
| Seat Height, Unladen | 27.8 in. (705 mm) | |
| Static Ground Clearance | 4.5 in. (114 mm) | |
| Rake (steering head) (deg) | 30 | |
| Fork Angle (deg) | 28 | |
| Trail | 5.4 in. (137 mm) | |
| Wheelbase | 61.3 in. (1,556 mm) | |
| Tires, Type | Dunlop® Harley-Davidson Series Bias Blackwall | |
| Tires, Front Model | D401F | |
| Tires, Front Specification | 100/90-19 57H | |
| Tires, Rear Model | D401T | |
| Tires, Rear Specification | 150/80B16 77H | |
| Fuel Capacity | 3.1 gal. (11.7 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 | 2.22 qt. (2.1 l) | |
| Weight, As Shipped | 462 lb. (210 kg) | |
| Weight, In Running Order | 481 lb. (218 kg) | |
| Gross Vehicle Weight Rating | 922 lb. (418 kg) | |
| Gross Axle Weight Rating, Front | 353 lb. (160 kg) | |
| Gross Axle Weight Rating, Rear | 595 lb. (270 kg) | |
| Luggage Capacity -Volume | N/A | |

| Engine | RH975 Nightster™ | Notes |
|--------------------|--------------------------------------------------------------------------------------------|-------|
| Engine | Revolution® Max 975T | |
| Valves | Chain-driven, DOHC, hydraulic self-adjusting lifters, intake VVT; four valves per cylinder | |
| Bore | 3.82 in. (97 mm) | |
| Stroke | 2.6 in. (66 mm) | |
| Displacement | 59.5 cu in (975 cc) | |
| Compression Ratio | 12:01 | |
| Fuel System | Electronic Sequential Port Fuel Injection (ESPFI) | 3 |
| Air Cleaner | Downdraft intake, tuned velocity stacks, washable filter media | |
| Exhaust | 2-into-1; catalyst in header | |
| Lubrication System | Semi-Dry Sump | |

| Drivetrain | RH975 Nightster™ | 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 | RH975 Nightster™ | Notes |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Frame | Stressed-member, high strength low alloy steel trellis frame; stamped, cast, and forged junctions; MIG welded; aluminum forged mid-structure | |
| Swingarm | Mild steel, rectangular tube section, stamped x-member; MIG welded | |

| | | |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| Front Fork | 41 mm SHOWA® Dual Bending Valve conventional forks. Aluminum fork triple clamps. | |
| Rear Shocks | Rear suspension is dual outboard, direct-acting (no linkage) emulsion technology shock absorbers with coil springs and a threaded collar for pre-load adjustment. | |
| Wheels, Optional Style Type | N/A | 4 |
| Wheels, Front Type | Aluminum cast, satin black | 4 |
| Wheels, Front Width | 2.5 in. (64 mm) | |
| Wheels, Front Height | 19 in. (483 mm) | |
| Wheels, Rear Type | Aluminum cast, satin black | 4 |
| Wheels, Rear Width | 4.25 in. (108 mm) | |
| Wheels, Rear Height | 16 in. (406 mm) | |
| Brakes, Caliper Type | Front: axially mounted, 4-piston caliper; Rear: floating, single piston caliper | |
| Brakes, Rotor Type | Front: single rotor, floating, hub - mounted; Rear: solid uniform expansion rotor | |
| Brakes, Front Diameter | 12.6 in. (320 mm) | |
| Brakes, Front Thickness | 0.23 in. (5.8 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 | 4.5 in. (114 mm) | |
| Suspension Travel, Rear | 3 in. (76.2 mm) | |

| Performance | RH975 Nightster™ | Notes |
|------------------------------------------|--------------------------|--------------|
| Engine Torque Testing Method | J1349 | |
| Engine Torque | 70 ft-lb (95 Nm) | 5 |
| Engine Torque | 5,000 | |
| Power | 90 HP / 67 kW @ 7500 rpm | |
| Lean Angle Testing Method | J1168 | |
| Lean Angle, Right (deg.) | 32 | |
| Lean Angle, Left (deg.) | 32 | |
| Fuel Economy Testing Method | Estimated City/Hwy | |
| Fuel Economy | 52.4 mpg (4.5 l/100 km) | 6 |
| CO ² Emissions Testing Method | N/A | |

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|---------------------------|-----|--|
| CO ² Emissions | N/A | |
|---------------------------|-----|--|

| Electric | RH975 Nightster™ | 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 round gauge area analog display with, Speedometer, L/R turn Indication, Traction Control Indication, Coolant Temperature Alert, ABS alert, Fog Lamp Indication, Battery Voltage Alert, High Beam Indicator, Low Fuel Indication, Rear-ABS Disabled Indication, Failure-Indication Alert, Neutral Position Indication, Low Tire Pressure indication, Check Engine Light indication, Oil Pressure Alert, Service Indication. | |
| Auxiliary Lamps | N/A | |
| Electric Power Outlet | N/A | |
| GPS System | N/A | |
| Reverse Gear | N/A | |

| Warranty And Service | RH975 Nightster™ | 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 | RH975 Nightster™ | |
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| 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> | |

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