NEW RSV4 RR

Engine type
Aprilia longitudinal 65° V4 cylinder, 4-stroke, liquid cooled engine with dual overhead cam (DOHC) and four valves per cylinder

Fuel
Unleaded Petrol

Bore and stroke
78 x 52.3 mm

Total engine capacity
999.6 cc

Compression ratio
13.6:1

Maximum power at crankshaft
201 HP (148 kW) at 13,000 rpm

Maximum torque at crankshaft
115 Nm at 10,500 rpm

Fuel system
Airbox with front dynamic air intakes. Variable-height intake ducts controlled by engine control unit; 4 Marelli 48 mm throttle bodies with 8 injectors and latest-generation Ride-by-Wire technology. Choice of three different engine maps selectable by the rider with bike in motion: T (Track), S (Sport), R (Race)

Ignition
Magneti Marelli digital electronic ignition system integrated in engine control system, with one spark plug per cylinder and "stick-coil"-type coils

Starting
Electrical

Exhaust
4 into 2 into 1 layout, two oxygen sensors, lateral single silencer with ECU-controlled bypass valve and integrated trivalent catalytic converter (Euro 3)

Alternator
Flywheel mounted 450 W alternator with rare earth magnets

Lubrication
Wet sump lubrication system with oil radiator and two oil pumps (lubrication and cooling)

Gearbox
6-speed cassette type gearbox
1st: 39/15 (2.600)
2nd: 33/16 (2.063)
3rd: 34/20 (1.700)
4th: 31/21 (1.476)
5th: 31/23 (1.348)
6th: 34/27 (1.259)

Gear lever with Aprilia Quick Shift electronic system (aQS)

Clutch
Multi-disc oil-bath, with mechanical slipper system

Primary drive
Straight cut gears and integrated flexible coupling, drive ratio: 73/44 (1.659)

Secondary drive
Chain: Drive ratio: 41/16 (2.5625)

Traction management
aPRC System (Aprilia Performance Ride Control), which includes Traction Control (aTC), Wheellie Control (aWC), Launch Control (aLC), all of which can be configured and deactivated independently.
Frame
Aluminium dual beam chassis with pressed and cast sheet elements.
Envisaged adjustments:
• headstock position and rake
• engine height
• swingarm pin height
Non adjustable Sachs steering damper
[Adjustable Öhlins steering damper]

Front suspension
Sachs Fork with 43 mm∅ stanchions; [Öhlins Racing Fork with TIN surface treatment]. Low profile forged aluminium radial calliper mounting bracket. Adjustable spring preload and hydraulic compression and rebound damping. Wheel travel: 120 mm

Rear suspension
Double braced aluminium swingarm; mixed low thickness and sheet casting technology.
Sachs monoshock adjustable in: hydraulic in rebound and compression, spring preload, wheelbase length
[Öhlins Racing monoshock with piggy-back, fully adjustable in: spring preload, wheelbase length, hydraulic in compression and rebound]. APS progressive linkages. Wheel travel 130 mm

Brakes
Front: Dual 320-mm diameter floating stainless steel disc with lightweight stainless steel rotor and aluminium flange with 6 pins. Brembo M430 monobloc radial callipers with 4 ∅ 30 mm opposing pistons. Sintered pads. Radial pump and metal braided brake hose
Rear: 220 mm diameter disc; Brembo calliper with two ∅ 32 mm separate pistons. Sintered pads. Pump with integrated tank and metal braided hose
Bosch 9MP ABS, adjustable to 3 maps equipped with RLM (Rear wheel Lift-up Mitigation) (can be disabled).

Wheel rims
Aprilia aluminium alloy rims with 3 split spokes, [forged aluminium alloy, completely machined, 5 split spokes].
Front: 3.5”X17”
Rear: 6”X17”

Tyres
Radial tubeless.
Front: 120/70 ZR 17
Rear: 200/55 ZR 17 (alternative: 190/50 ZR 17; 190/55 ZR 17)

Dry weight
180 kg*
Fuel tank
18.5 litres (4-litre reserve included)

*Dry weight, without battery and fluids.