

TECHNICAL SPECIFICATION 2024

RANGE ROVER
VELAR



ENGINES AND TECHNICAL SPECIFICATION

Range Rover Velar features advanced engine options, providing new levels of performance, efficiency, and refinement. There is a plug-in electric hybrid (PHEV) for all-electric, zero tailpipe emissions driving, as well as petrol and diesel engine options.

1

ENGINES

View the available engines, their fuel economy and specifications.

2

DIMENSIONS AND CAPABILITIES

View the ride height, turning circle and other capability specifications.

Engines

ENGINE			PETROL ELECTRIC HYBRID (PHEV)	
Transmission			P400e	
Driveline			Automatic	
Maximum power (PS / rpm)			All Wheel Drive (AWD)	
Maximum torque (Nm / rpm)			404 / 5,500*	
Capacity (cc)			640 / 1.500-4,400*	
No. of cylinders / Valves per cylinder			1,997	
Cylinder layout			4 / 4	
Bore / stroke (mm)			Inline	
Compression ratio (:1)			83 / 92.3	
FUEL ECONOMY – WLTP**			9.5	
WLTP Consumption		Combined	mpg (l/100 km)	
WLTP CO ₂ Emissions		Combined	(g/km)	
Fuel tank capacity - useable litres			163.3-148.7 (1.7-1.9)	
Selective Catalytic Reduction Filter / Gasoline Particulate Filter (SCRf / GPF)			39-43	
			69	
			■	

■ Standard.

*When combined with electric motor. **The figures provided are as a result of official manufacturer’s tests in accordance with EU legislation with a fully charged battery. For comparison purposes only. Real-world figures may differ. CO₂, fuel economy, energy consumption and range figures may vary according to factors such as driving styles, environmental conditions, load, wheel fitment, accessories fitted, actual route and battery condition. Range figures are based upon production vehicle over a standardised route.

Engines

ENGINE			PETROL MILD HYBRID (MHEV)	
Mild Hybrid Electric Vehicle (MHEV)			P400	
Transmission			■	
Driveline			Automatic	
Maximum power (PS / rpm)			All Wheel Drive (AWD)	
Maximum torque (Nm / rpm)			400 / 5,500-6,500	
Capacity (cc)			550 / 2,000-5,000	
No. of cylinders / Valves per cylinder			2,996	
Cylinder layout			6 / 4	
Bore / stroke (mm)			Inline	
Compression ratio (:1)			83 / 92.3	
FUEL ECONOMY – WLTP*			10.5	
WLTP Consumption	Low	mpg (l/100km)	19.8-18.9 (14.3-14.9)	
	Medium	mpg (l/100km)	29.8-28.4 (9.5-10.0)	
	High	mpg (l/100km)	34.9-32.8 (8.1-8.6)	
	Extra High	mpg (l/100km)	30.9-28.5 (9.1-9.9)	
	Combined	mpg (l/100km)	29.5-27.7 (9.6-10.2)	
WLTP CO ₂ Emissions	Low	(g/km)	326-341	
	Medium	(g/km)	216-227	
	High	(g/km)	185-196	
	Extra High	(g/km)	208-226	
	Combined	(g/km)	218-232	
Fuel tank capacity - useable litres			83	
Selective Catalytic Reduction Filter / Gasoline Particulate Filter (SCRF / GPF)			■	

■ Standard.

*The figures provided are as a result of official manufacturer’s tests in accordance with EU legislation. For comparison purposes only. Real-world figures may differ. CO₂ and fuel economy figures may vary according to factors such as driving styles, environmental conditions, load, wheel fitment and accessories fitted.

Engines

	PETROL MILD HYBRID (MHEV)
PERFORMANCE	P400
Acceleration (secs) 0-60 mph (0-100 km/h)	5.2 (5.5)
Maximum speed kmph (km/h)	155 (250)*
BRAKES	
Front type	Single piston sliding caliper, vented disc
Front diameter (mm)	370
Rear type	Single piston sliding caliper, vented disc
Rear diameter (mm)	325
Park Brake	iEPB, motor on caliper
WEIGHTS (kg)**	
Unladen weight (EU)†	2,085
Unladen weight (DIN)††	2,010
Gross Vehicle Weight (GVW)	2,670
TOWING (kg)	
Unbraked trailer	750
Maximum towing	2,500
Maximum coupling point (nose weight)	100
Maximum vehicle and trailer combination	5,170
ROOF CARRYING (kg)	
Maximum roof load (including cross bars)	79

*Top speed on engines with coil suspension is 210km/h (130mph). **Weights reflect vehicles to standard specifications. Optional extras increase weight. †Includes a 75kg driver, full fluids and 90% fuel. ††Includes full fluids and 90% fuel.

Engines

			DIESEL MILD HYBRID (MHEV)		
ENGINE			D300		D200
Mild Hybrid Electric Vehicle (MHEV)			■		■
Transmission			Automatic		Automatic
Driveline			All Wheel Drive (AWD)		All Wheel Drive (AWD)
Maximum power (PS / rpm)			300 / 4,000		204 / 3,750-4,000
Maximum torque (Nm / rpm)			650 / 1,500-2,500		430 / 1,750-2,500
Capacity (cc)			2,997		1,998
No. of cylinders / Valves per cylinder			6 / 4		4 / 4
Cylinder layout			Inline		Inline
Bore / stroke (mm)			83 / 92.3		83 / 92.3
Compression ratio (:1)			15.5		16.5
FUEL ECONOMY – WLTP*					
WLTP Consumption	Low	mpg (l/100km)	27.2-25.1 (10.40-11.2)		38.0-35.6 (7.4-7.9)
	Medium	mpg (l/100km)	37.2-35.9 (7.6-7.9)		45.1-41.4 (6.3-6.8)
	High	mpg (l/100km)	49.6-46.4 (5.7-6.1)		51.1-46.5 (5.5-6.1)
	Extra High	mpg (l/100km)	40.0-36.7 (7.1-7.7)		41.8-38.0 (6.7-7.4)
	Combined	mpg (l/100km)	39.3-36.6 (7.2-7.7)		44.3-40.5 (6.4-7.0)
WLTP CO ₂ Emissions	Low	(g/km)	272-294		195-208
	Medium	(g/km)	198-206		164-179
	High	(g/km)	149-159		145-160
	Extra High	(g/km)	185-201		177-195
	Combined	(g/km)	188-202		167-183
Fuel tank capacity - useable litres			68		62
Selective Catalytic Reduction Filter / Gasoline Particulate Filter (SCR _F / GPF)			■		■

■ Standard.

*The figures provided are as a result of official manufacturer’s tests in accordance with EU legislation. For comparison purposes only. Real-world figures may differ. CO₂ and fuel economy figures may vary according to factors such as driving styles, environmental conditions, load, wheel fitment and accessories fitted.

Engines

	Diesel Mild Hybrid (MHEV)	
Performance	D300	D200
Acceleration (secs) 0-60 mph (0-100 km/h)	6.1 (6.5)	7.8 (8.3)
Maximum speed mph (km/h)	143 (230)*	130 (210)
Brakes		
Front type	Single piston sliding caliper, vented disc	Single piston sliding caliper, vented disc
Front diameter (mm)	370	350
Rear type	Single piston sliding caliper, vented disc	Single piston sliding caliper, vented disc
Rear diameter (mm)	325	325
Park Brake	iEPB, motor on caliper	iEPB, motor on caliper
Weights (kg)**		
Unladen weight (EU)†	2,124	2,003
Unladen weight (DIN)††	2,049	1,928
Gross Vehicle Weight (GVW)	2,710	2,590
Towing (kg)		
Unbraked trailer	750	750
Maximum towing	2,500	2,400
Maximum coupling point (nose weight)	100	100
Maximum vehicle and trailer combination	5,210	4,990
Roof Carrying (kg)		
Maximum roof load (including cross bars)	79	79

*Top speed on engines with coil suspension is 210km/h (130mph). **Weights reflect vehicles to standard specifications. Optional extras increase weight. †Includes a 75kg driver, full fluids and 90% fuel. ††Includes full fluids and 90% fuel.

DIMENSIONS AND CAPABILITIES

DIMENSIONS
Maximum height 1,678mm (Air) 1,683mm (Coil)
Access height air s,sension setting will reduce the above by 40mm
Overall length 4,797mm
Width 2,041mm mirrors folded
Width 2,147mm mirrors out
Front wheel track 1,643,6mm (Air), 1,640.2mm (Coil)
Rear wheel track 1,662,8mm (Air), 1,657.2mm (Coil)
Wheelbase 2,874mm
TURNING CIRCLE
Kerb-to-kerb 11.95m
Wall-to-wall 12.35m
Turns lock-to-lock 2.52

WADING DEPTH
Maximum wading depth 530mm / 580mm*
HEADROOM
Maximum front / rear headroom with standard roof 993mm / 988mm
Maximum front / rear headroom with panoramic roof 970mm / 966mm
LEGROOM
Maximum front legroom 1,023mm
Maximum rear legroom 944mm

OBSTACLE CLEARANCE
Off-road height (Air) 252mm* (Coil) 214mm
Standard ride height (Air) 205mm* (Coil) 214mm
APPROACH AND DEPARTURE CLEARANCE
Standard
Approach Angle - (Air) 22.5° (Coil) 23.6°
Departure Angle - (Air) 24.8° (Coil) 25.0°
Ramp Angle - (Air) 18.3° (Coil) 19.1°
Off-road
Approach Angle - (Air) 28.9° (Coil) 26.1°
Departure Angle - (Air) 29.0° (Coil) 26.7°
Ramp Angle - (Air) 23.8° (Coil) 21.0°

LOADSPACE CAPACITY
Height 687mm
Width 1,245mm
Loadspace width between arches 1,050mm
Length behind first row 1,791mm
Maximum loadspace volume behind first row
Dry** 1,374 litres
Wet† 1,811 litres
Length behind second row 988mm
Maximum loadspace volume behind second row
Dry** 568 litres
Wet† 748 litres



Maximum height 1,678mm (Air) 1,683mm (Coil)

Width 2,041mm mirrors folded
Width 2,147mm mirrors out



Overall length 4,797mm

Weights and dimensions shown apply to standard-specification, unladen vehicles, which may be affected by optional features and equipment.

*Electronic air suspension only. **Dry: Volume as measured with VDA-compliant solid blocks (200mm x 50mm x 100mm). Volume measured up to the headliner. Boot configuration and total loadspace will vary by vehicle specification (model and powertrain) and market. †Wet: Volume as measured by simulating the loadspace filled with liquid. Volume measured up to the headliner. Boot configuration and total loadspace will vary by vehicle specification (model and powertrain) and market.

Vehicle shown is Dynamic HSE in Zadar Grey with optional Black contrast roof and 22" Style 1075, 10 Spoke, Gloss Dark Grey with contrast Diamond Turned finish.

Figures may vary for P400e models.