TECHNICAL SPECIFICATION 2025





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.



ENGINES

View the available engines, their fuel economy and specifications.



DIMENSIONS AND CAPABILITIES

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

G BUILD YOUR OWN

			PLUG-IN PETROL ELECTRIC HYBRID (PHEV)		
ENGINE			P400e		
Transmission			Automatic		
Driveline			All Wheel Drive (AWD)		
Maximum power (PS / rpm)			404 / 5,500*		
Maximum torque (Nm / rpm)			640 / 1.500-4,400*		
Capacity (cc)			1,997		
No. of cylinders / Valves per cylin	der		4 / 4		
Cylinder layout			Inline		
Bore / stroke (mm)			83 / 92.3		
Compression ratio (:1)			9.5		
UEL ECONOMY – WLTP**					
WLTP Consumption	Combined	mpg (l/100 km)	(151.6 - 169.8) 1.55 - 1.39		
VLTP CO ₂ Emissions	Combined	(g/km)	38-42		
Fuel tank capacity - useable litres			69		
Selective Catalytic Reduction Filter / Gasoline Particulate Filter (SCRF / GPF)					

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.

	PLUG-IN PETROL ELECTRIC HYBRID (PHEV)
BATTERY AND CHARGING TIMES	P400e
Home Charger / Wall box 7kW	2 hours 30 minutes to 100%
Rapid DC Charger 35kW	30 minutes to 80%
Domestic Plug 2.3kW	8 hours to 100%
Battery capacity Total (Usable) kWh	19.246 (15.39)
Charging cable length (m)	5
PERFORMANCE	
Acceleration (secs) 0-60 mph (0-100 km/h)	5.1 (5.4)
Maximum speed mph (km/h)	130 (209)
ELECTRIC MOTOR DATA	
Maximum power PS (kW)	142.7 (105)
Maximum torque (Nm)	275
EV Range Combined (WLTP*) miles (km)	39.8-37.9 (64-60)
EV Range expected Real World data (up to) miles (km)	30 (49)
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)†	2,280
Unladen weight (DIN) ^{††}	2,205
Gross Vehicle Weight (GVW)	2,740
TOWING (kg)	
Unbraked trailer	750
Maximum towing	2,000
Maximum coupling point (nose weight)	100
Maximum vehicle and trailer combination	4,740
ROOF CARRYING (kg)	
Maximum roof load (including weight of roof rack) (Dynamic / Static)	79 / 100

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			PETROL MILD HYBRID (MHEV)	
ENGINE			P400	
Mild Hybrid Electric Vehicle (N	1HEV)			
Transmission			Automatic	
Driveline			All Wheel Drive (AWD)	
Maximum power (PS / rpm)			400 / 5,500-6,500	
Maximum torque (Nm / rpm)			550 / 2,000-5,000	
Capacity (cc)			2,996	
No. of cylinders / Valves per cy	linder		6 / 4	
Cylinder layout			Inline	
Bore / stroke (mm)			83 / 92.3	
Compression ratio (:1)			10.5	
FUEL ECONOMY – WLTP*				
	Low	mpg (l/100km)	19.8-18.9 (14.3-14.9)	
	Medium	mpg (l/100km)	29.8-28.4 (9.5-10.0)	
WLTP Consumption	High	mpg (l/100km)	34.9-32.8 (8.1-8.6)	
consumption	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)	
	Low	(g/km)	326-341	
WLTP CO_2 Emissions	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 lit	res		83	
· · · · · · · · · · · · · · · · · · ·	Selective Catalytic Reduction Filter / Gasoline Particulate Filter (SCRE / GPE)		_	

Selective Catalytic Reduction Fi	ilter / Gasoline Particulate Filter (SCR	•	
Fuel tank capacity - useable litre	es		83
	Combined	(g/km)	218-232
WLTP CO ₂ Emissions	Extra High	(g/km)	208-226
	High	(g/km)	185-196
	Medium	(g/km)	216-227
	Low	(g/km)	326-341
	Combined	mpg (l/100km)	29.5-27.7 (9.6
WLTP Consumption	Extra High	mpg (l/100km)	30.9-28.5 (9.
	High	mpg (l/100km)	34.9-32.8 (8.
	Medium	mpg (l/100km)	29.8-28.4 (9.5
	Low	mpg (l/100km)	19.8-18.9 (14.3

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.

	PETROL MILD HYBRID (MHEV)	
PERFORMANCE	P400	
Acceleration (secs) 0-60 mph (0-100 km/h)	5.2 (5.5)	
Maximum speed mph (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 weight of roof rack) (Dynamic / Static)	79 / 100	

			DIESEL MILD HYBRID (MHEV)		
ENGINE			D300	D200	
Mild Hybrid Electric Vehicle (MH	HEV)				
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 cyli	inder		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*					
	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)	
WLTP Consumption	High	mpg (l/100km)	49.6-46.4 (5.7-6.1)	51.1-46.5 (5.5-6.1)	
consumption	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)	
	Low	(g/km)	272-294	195-208	
	Medium	(g/km)	198-206	164-179	
WLTP CO ₂ Emissions	High	(g/km)	149-159	145-159	
	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 (SCRF / GPF)		F / GPF)			

	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 weight of roof rack) (Dynamic / Static)	79 / 100	79 / 100	

DIMENSIONS AND CAPABILITIES

DIMENSIONS

Maximum height 1.678mm (Air) 1,683mm (Coil) Access height air s, spension 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) 26.2° Departure Angle - (Air) 29.0° (Coil) 26.7° Ramp Angle - (Air) 23.8° (Coil) 21.0°



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 Autobiography 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.

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