

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.

			PLUG-IN PETROL ELECTRIC HYBRID (PHEV)	
ENGINE			P400e	
Transmission			Automatic	
Driveline			All Wheel Drive (AWD)	
Maximum power (PS / kW / rpm)		404 / 297 / 5.500*	
Maximum torque (Nm / rpm)			640 / 1.500-4.400*	
Capacity (cc)			1.997	
No. of cylinders / Valves per cyli	nder		4 / 4	
Cylinder layout			Inline	
Bore / stroke (mm)			83 / 92,3	
Compression ratio (:1)			9,5	
FUEL ECONOMY**				
Consumption	Combined	l/100km	2,2	
CO ₂ Emissions Combined (g/km)		(g/km)	51	
FUEL ECONOMY – WLTP†				
WLTP Consumption	Combined	l/100km	4,5-4,8 (62,5-58,7)	
WLTP CO ₂ Emissions Combined (g/km)		(g/km)	103-110	
Fuel tank capacity - useable litres			69	
Selective Catalytic Reduction Filter / Gasoline Particulate Filter (SCRF / GPF)		F / GPF)		

[■] Standard.

^{*}When combined with electric motor. **The figures provided are NEDC calculated from official manufacturer's tests. Figures may vary according to environment and driving style. For comparison purposes only. Real world figures may differ.

†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) 0-100 km/h (0-60 mph)	5,4 (5,1)		
Maximum speed km/h (mph)	209 (130)		
ELECTRIC MOTOR DATA			
Maximum power PS (kW)	142.7 (105)		
Maximum torque (Nm)	275		
EV Range Class A Combined (NEDC2*) km	69		
EV Range Combined (WLTP**) km (miles)	59-58 (37-36)		
EV Range expected Real World data (up to) km (miles)	49 (30)		
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			
Maximum towing	2.000		
Maximum coupling point (nose weight)	100		
Maximum vehicle and trailer combination	4.740		
ROOF CARRYING (kg)			
Maximum roof load (including cross bars)			

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			PETROL MILD HYBRID (MHEV)		
ENGINE			P400	P340	
Mild Hybrid Electric Vehicle (MF	HEV)		•		
Transmission			Automatic	Automatic	
Driveline			All Wheel Drive (AWD)	All Wheel Drive (AWD)	
Maximum power (PS / kW / rpm	1)		400 / 294 / 5.500-6.500	340 / 250 / 5.500-6.500	
Maximum torque (Nm / rpm)			550 / 2.000-5.000	480 / 1.500-4.500	
Capacity (cc)			2.996	2.996	
lo. of cylinders / Valves per cyli	inder		6 / 4	6 / 4	
Cylinder layout			Inline	Inline	
Bore / stroke (mm)			83 / 92,3	83 / 92,3	
Compression ratio (:1)			10,5	10,5	
FUEL ECONOMY*					
Consumption	Combined	l/100km	9,1	9,1	
CO ₂ Emissions	Combined	(g/km)	206	206	
FUEL ECONOMY – WLTP**					
	Low	l/100km (mpg)	14,3-14,9 (19,8-18,9)		
	Medium	l/100km (mpg)	9,5-10,0 (29,8-28,4)	-	
VLTP Consumption	High	l/100km (mpg)	8,1-8,6 (34,9-32,8)	-	
onsumption	Extra High	l/100km (mpg)	9,1-9,9 (30,9-28,5)	-	
	Combined	l/100km (mpg)	9,6-10,2 (29,5-27,7)	-	
	Low	(g/km)	326-341	-	
	Medium	(g/km)	216-227	-	
WLTP CO ₂ Emissions	High	(g/km)	185-196	-	
	Extra High	(g/km)	208-226	-	
	Combined	(g/km)	218-232	-	
Fuel tank capacity - useable litres			83	83	
Selective Catalytic Reduction Filter / Gasoline Particulate Filter (SCRF / GPF)		F / GPF)			

[■] Standard - Not Available.

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	PETROL MILD HYBRID (MHEV)		
PERFORMANCE	P400	P340	
Acceleration (secs) 0-100 km/h (0-60 mph)	5,5 (5,2)	6,3 (6,0)	
Maximum speed km/h (mph)	250 (155)*	240 (149)*	
BRAKES			
Front type	Single piston sliding caliper, vented disc	Single piston sliding caliper, vented disc	
Front diameter (mm)	370	370	
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)**			
Inladen weight (EU)†	2.085	2.085	
nladen weight (DIN)††	2.010	2.010	
Gross Vehicle Weight (GVW)	2.670	2.670	
OWING (kg)			
Jnbraked trailer	750	750	
Maximum towing	2.500	2.500	
Maximum coupling point (nose weight)	100	100	
Maximum vehicle and trailer combination	5.170	5.170	
ROOF CARRYING (kg)			
Maximum roof load (including cross bars)	79	79	

			PETROL		
ENGINE			P250		
Transmission			Automatic		
Driveline			All Wheel Drive (AWD)		
Maximum power (PS / kW / rp	om)		250 / 183.9 / 5.500		
Maximum torque (Nm / rpm)			365 / 1.300-4.500		
Capacity (cc)			1.997		
No. of cylinders / Valves per c	ylinder		4 / 4		
Cylinder layout			In-line In-line		
Bore / stroke (mm)			83 / 92,3		
Compression ratio (:1)			10,5		
FUEL ECONOMY*					
Consumption	Combined	l/100km	8,0		
CO ₂ Emissions	CO ₂ Emissions Combined (g/km) 182		182		
Fuel tank capacity - useable litres			83		
Selective Catalytic Reduction Filter / Gasoline Particulate Filter (SCRF / GPF)					

[■] Standard.

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	PETPO!
	PETROL
PERFORMANCE	P250
Acceleration (secs) 0-100 km/h (0-60 mph)	7,5 (7,1)
Maximum speed km/h (mph)	217 (135)
BRAKES	
Front type	Single piston sliding caliper, vented disc
Front diameter (mm)	350
Rear type	Single piston sliding caliper, vented disc
Rear diameter (mm)	325
Park Brake	iEPB, motor on caliper
WEIGHTS (kg)*	
Unladen weight (EU)**	1.950
Unladen weight (DIN) [†]	1.875
Gross Vehicle Weight (GVW)	2.550
TOWING (kg)	
Unbraked trailer	750
Maximum towing	2.400
Maximum coupling point (nose weight)	100
Maximum vehicle and trailer combination	4.950
ROOF CARRYING (kg)	
Maximum roof load (including cross bars)	79

			DIESEL MILD HYBRID (MHEV)	
ENGINE			D300	D200
Mild Hybrid Electric Vehicle (MH	IEV)		•	
Transmission			Automatic	Automatic
Driveline			All Wheel Drive (AWD)	All Wheel Drive (AWD)
Maximum power (PS / kW / rpm)		300 / 221 / 4.000	204 / 150 / 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	nder		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*				
Consumption	Combined	I/100km	7,0	5,7
CO ₂ Emissions	Combined	(g/km)	185	150
FUEL ECONOMY – WLTP**				
	Low	l/100km (mpg)	10,4-11,2 (27,2-25,1)	7,4-7,9 (38,0-35,6)
	Medium	l/100km (mpg)	7,6-7,9 (37,2-35,9)	6,3-6,8 (45,1-41,4)
WLTP Consumption	High	l/100km (mpg)	5,7-6,1 (49,6-46,4)	5,5-6,1 (51,1-46,5)
Consumption	Extra High	l/100km (mpg)	7,1-7,7 (40,0-36,7)	6,7-7,4 (41,8-38,0)
	Combined	l/100km (mpg)	7,2-7,7 (39,3-36,6)	6,4-7,0 (44,3-40,5)
	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 litre	es .		68	62
Selective Catalytic Reduction Filter / Gasoline Particulate Filter (SCRF / GPF)		RF / GPF)	•	

■ Standar

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	DIESEL MILD HYBRID (MHEV)		
PERFORMANCE	D300	D200	
Acceleration (secs) 0-100 km/h (0-60 mph)	6,5 (6,1)	8,3 (7,8)	
Maximum speed km/h (mph)	230 (143)*	210 (130)	
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	

			DIESEL		
ENGINE			D300	D200	
Transmission			Automatic	Automatic	
Driveline			All Wheel Drive (AWD)	All Wheel Drive (AWD)	
Maximum power (PS / kW / rp	om)		300 / 221 / 4.000	199 / 146 / 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*					
Consumption	Combined	l/100km	7,3	5,9	
CO ₂ Emissions	Combined	(g/km)	193	156	
Fuel tank capacity - useable litres			68	62	
Selective Catalytic Reduction Filter / Gasoline Particulate Filter (SCRF / GPF)					

[■] Standard.

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	DIESEL		
PERFORMANCE	D300	D200	
Acceleration (secs) 0-100 km/h (0-60 mph)	6,5 (6,1)	8,3 (7,8)	
Maximum speed km/h (mph)	230 (143)*	210 (130)	
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)†	2.068	1.946	
Unladen weight (DIN) ^{††}	1.993	1.871	
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	

DIMENSIONS AND CAPABILITIES

DIMENSIONS

Maximum height 1.678mm (Air) 1.683mm (Coil) Access height air suspension 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°

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)

um t nm

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 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.