

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)	Maximum power (PS / kW / rpm)		404 / 297 / 5.500*	
Maximum torque (Nm / rpm)			640 / 1.500-4.400*	
Capacity (cc)	1.997		1.997	
No. of cylinders / Valves per cylin				
Cylinder layout			Inline	
Bore / stroke (mm)	83 / 92,3			
Compression ratio (:1)	(:1) 9,5		9,5	
FUEL ECONOMY**				
Consumption	Combined	l/100km	2,2	
CO ₂ Emissions	Combined	(g/km)	51	
FUEL ECONOMY – WLTP†				
WLTP Consumption	Combined	l/100km	4,5-4,8	
WLTP CO ₂ Emissions	Combined	(g/km)	103-110	
Fuel tank capacity - useable litres	S		69	
Selective Catalytic Reduction Filt	Selective Catalytic Reduction Filter / Gasoline Particulate Filter (SCRF / 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.

	DI HO IN DETDOL ELECTRIC HYDRID (DUEV)		
PATTERY AND CHARCING TIMES	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	5,4		
Maximum speed km/h	209		
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	59-58		
EV Range expected Real World data (up to) km	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 cross bars)	79		

^{*}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. †Weights reflect vehicles to standard specifications. Optional extras increase weight. †Includes a 75kg driver, full fluids and 90% fuel.

			PETROL MILD HYBRID (MHEV)	
ENGINE			P400	
Mild Hybrid Electric Vehicle (M	IHEV)			
Transmission			Automatic	
Driveline			All Wheel Drive (AWD)	
Maximum power (PS / kW / rpr	m)		400 / 294 / 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)	ssion ratio (:1) 10,5		10,5	
FUEL ECONOMY*				
Consumption	Combined	l/100km	9,1	
CO ₂ Emissions	Combined	(g/km)	206	
FUEL ECONOMY – WLTP*	*			
	Low	l/100km	14,3-14,9	
1447	Medium	l/100km	9,5-10,0	
WLTP Consumption	High	l/100km	8,1-8,6	
Consumption	Extra High	l/100km	9,1-9,9	
	Combined	l/100km	9,6-10,2	
	Low	(g/km)	326-341	
NA/LTD	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 litr	res		83	
Selective Catalytic Reduction F	ilter / Gasoline Particulate Filter (SCF	PF / GPF)		

[■] Standard - Not Available.

^{*}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. 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) 0-100 km/h (0-60 mph)	5,5 (5,2)	
Maximum speed km/h (mph)	250 (155)*	
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	

			DIESEL MILD HYBRID (MHEV)	
ENGINE		D300	D200	
Mild Hybrid Electric Vehicle (MI	HEV)		•	
Transmission			Automatic	Automatic
Driveline			All Wheel Drive (AWD)	All Wheel Drive (AWD)
Maximum power (PS / kW / rpm	n)		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 cyl	linder		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	7,0	5,7
CO ₂ Emissions	Combined	(g/km)	185	150
FUEL ECONOMY – WLTP**	r ·			
	Low	l/100km	10,4-11,2	7,4-7,9
	Medium	l/100km	7,6-7,9	6,3-6,8
WLTP Consumption	High	l/100km	5,7-6,1	5,5-6,1
Consumption	Extra High	l/100km	7,1-7,7	6,7-7,4
	Combined	l/100km	7,2-7,7	6,4-7,0
	Low	(g/km)	272-294	195-208
WLTP CO ₂ Emissions	Medium	(g/km)	198-206	164-179
	High	(g/km)	149-159	145-159
30 ₂ 211113310113	Extra High	(g/km)	185-201	177-195
	Combined	(g/km)	188-202	167-183
Fuel tank capacity - useable litr	es		68	62
Selective Catalytic Reduction Fi	ilter / Gasoline Particulate Filter (SCF	RF / GPF)		

■ Standard

^{*}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. 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.

	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 c	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.

^{*}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.

	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



1.683mm (Coil)





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.

Maximum height 1.678mm (Air)

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.