

RANGE ROVER VELAR

TECHNICAL SPECIFICATION

APRIL 2020



ABOVE & BEYOND



ENGINES

You can select from a choice of diesel or petrol engines. These engines are designed for clean and efficient combustion and are all equipped with Stop/Start technology and smart regenerative charging.

Configure your Range Rover Velar at landrover.co.uk

TECHNICAL SPECIFICATION

POWERTRAIN	DIESEL				PETROL				
	D180	D240	D275	D300	P250	P300	V8 SUPERCHARGED		
Transmission	Automatic	Automatic	Automatic	Automatic	Automatic	Automatic	Automatic		
Driveline	All Wheel Drive (AWD)	All Wheel Drive (AWD)	All Wheel Drive (AWD)	All Wheel Drive (AWD)	All Wheel Drive (AWD)	All Wheel Drive (AWD)	All Wheel Drive (AWD)		
Maximum power (HP/rpm)	180/4,000	240/4,000	275/3,500-4,250	300/4,000	250/5,500	300/5,500	550/6,000-6,500		
Maximum torque (Nm/rpm)	430/1,750-2,500	500/1,500-2,500	625/1,500-2,500	700/1,500-1,750	365/1,300-4,500	400/1,500-4,500	680/2,500-5,500		
Capacity (cc)	1,999	1,999	2,993	2,993	1,997	1,997	4,999		
No. of cylinders/Valves per cylinder	4/4	4/4	6/4	6/4	4/4	4/4	8/4		
Cylinder layout	In-line	In-line	Longitudinal V6	Longitudinal V6	In-line	In-line	Longitudinal V8		
Bore/stroke (mm)	83/92.35	83/92.35	84/90	84/90	83/92.3	83/92.3	92.5/93		
Compression ratio (:1)	15.5	15.5	16.1	16.1	10.5 +/-0.5	9.5 +/-0.5	9.5		
FUEL ECONOMY - WLTP*									
WLTP Consumption	Low	mpg (l/100km)	32.5 - 30.5 (8.7 - 9.2)	29.9 - 28.2 (9.4 - 10.0)	29.8 - 26.8 (9.5 - 10.5)	29.8 - 26.8 (9.5 - 10.5)	23.2 - 21.4 (12.2 - 13.2)	21.9 - 20.7 (12.9 - 13.7)	15.4 (18.4)
	Medium	mpg (l/100km)	43.2 - 38.8 (6.5 - 7.3)	41.8 - 36.7 (6.8 - 7.7)	40.0 - 36.1 (7.1 - 7.8)	40.0 - 36.1 (7.1 - 7.8)	31.6 - 28.9 (8.9 - 9.8)	30.1 - 27.5 (9.4 - 10.3)	23.3 (12.1)
	High	mpg (l/100km)	49.3 - 43.7 (5.7 - 6.5)	47.8 - 42.2 (5.9 - 6.7)	45.2 - 40.7 (6.2 - 6.9)	45.2 - 40.7 (6.2 - 6.9)	36.3 - 32.2 (7.8 - 8.8)	35.0 - 31.7 (8.1 - 8.9)	27.0 (10.5)
	Extra High	mpg (l/100km)	40.7 - 36.2 (6.9 - 7.8)	41.4 - 36.0 (6.8 - 7.8)	35.4 - 33.4 (8.0 - 8.5)	35.4 - 33.4 (8.0 - 8.5)	30.2 - 26.9 (9.4 - 10.5)	29.7 - 26.0 (9.5 - 10.9)	24.2 (11.7)
	Combined	mpg (l/100km)	42.0 - 37.8 (6.7 - 7.5)	41.1 - 36.5 (6.9 - 7.7)	38.0 - 34.7 (7.4 - 8.1)	38.0 - 34.7 (7.4 - 8.1)	30.8 - 27.7 (9.2 - 10.2)	29.8 - 26.9 (9.5 - 10.5)	23.0 (12.3)
WLTP CO ₂ Emissions	Combined	(g/km)	177 - 196	181 - 203	195 - 214	195 - 214	208 - 231	215 - 238	279
FUEL ECONOMY									
Fuel tank capacity - useable litres			60	60	66	66	82	82	82
Selective Catalytic Reduction Filter/ Gasoline Particulate Filter (SCR/GPF)			■	■	■	■	■	■	■

■ Standard.

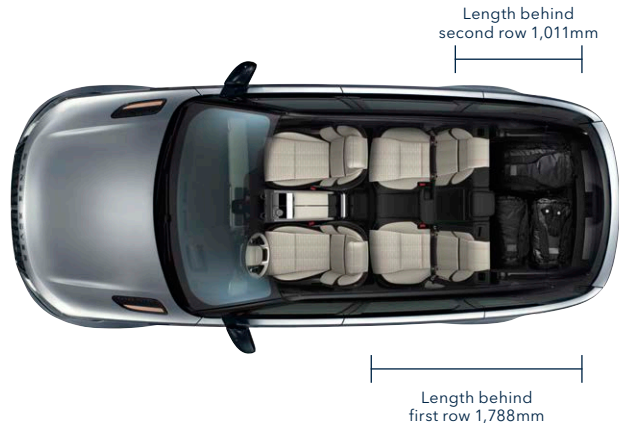
*WLTP is the new official EU test used to calculate standardised fuel consumption and CO₂ figures for passenger cars. It measures fuel, energy consumption, range and emissions. This is designed to provide figures closer to real-world driving behaviour. It tests vehicles with optional equipment and with a more demanding test procedure and driving profile. Figures are shown as a range under WLTP testing measures. The most economical figures refer to the most efficient/lightest set of options. The least economical figures refer to the least efficient/heaviest set of options. WLTP legislation dictates that where there is <5g CO₂ variance between the lowest and highest figures, only the highest is declared.

TECHNICAL SPECIFICATION

PERFORMANCE	DIESEL				PETROL		
	D180	D240	D275	D300	P250	P300	V8 SUPERCHARGED
Acceleration (secs) 0-60mph (0-100 km/h)	8.5 (8.9)	7.0 (7.4)	6.7 (7.0)	6.3 (6.7)	6.7 (7.1)	5.9 (6.2)	4.3 (4.5)
Maximum speed mph (km/h)	120 (193)	135 (217)	135 (218)	150 (241) 137 (220) with 18" wheels	135 (217)	145 (234) 137 (220) with 18" wheels	170 (274)
BRAKES							
Front type	Single piston sliding caliper, vented disc	Single piston sliding caliper, vented disc	Single piston sliding caliper, vented disc	Single piston sliding caliper, vented disc	Single piston sliding caliper, vented disc	Single piston sliding caliper, vented disc	4-piston aluminium monobloc fixed caliper, vented 2-piece disc
Front diameter (mm)	325	325	350	350	325	350	395
Rear type	Single piston sliding caliper, vented disc	Single piston sliding caliper, vented disc	Single piston sliding caliper, vented disc	Single piston sliding caliper, vented disc	Single piston sliding caliper, vented disc	Single piston sliding caliper, vented disc	Single piston sliding caliper, vented 2-piece disc
Rear diameter (mm)	325	325	325	325	325	325	396
Park Brake	iEPB, motor on caliper	iEPB, motor on caliper	iEPB, motor on caliper	iEPB, motor on caliper	iEPB, motor on caliper	iEPB, motor on caliper	iEPB, motor on caliper
WEIGHTS (KG)**							
Unladen weight (EU)†	1,899	1,911	2,029	2,029	1,874	1,884	2,160
Unladen weight (DIN)††	1,824	1,836	1,954	1,954	1,799	1,809	2,085
Gross Vehicle Weight (GVW)	2,490	2,510	2,610	2,610	2,500	2,500	2,610
TOWING (KG)							
Unbraked trailer	750	750	750	750	750	750	750
Maximum towing	2,400	2,500	2,500	2,500	2,400	2,400	2,500
Maximum coupling point (nose weight)	100	100	100	100	100	100	100
Maximum vehicle and trailer combination	4,890	5,010	5,110	5,110	4,900	4,900	5,110
ROOF CARRYING (kg)							
Maximum roof load (including cross bars)	79	79	79	79	79	79	79

**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



Standard Ride Height†

With roof antenna 1,677mm (Air) 1,685mm (Coil)
 With panoramic roof open 1,703mm (Air) 1,711mm (Coil)
 Access height air suspension setting will reduce each of the above by 40mm

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†

Loadspace Capacity

Height 687mm, Width 1,247mm
 Loadspace width between arches 1,050mm
 Maximum loadspace volume behind first row
 Dry* 1,250 litres, Wet** 1,705 litres
 Maximum loadspace volume behind second row
 Dry* 513 litres, Wet** 834 litres

Obstacle Clearance

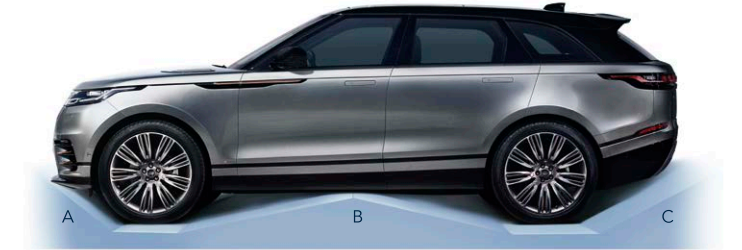
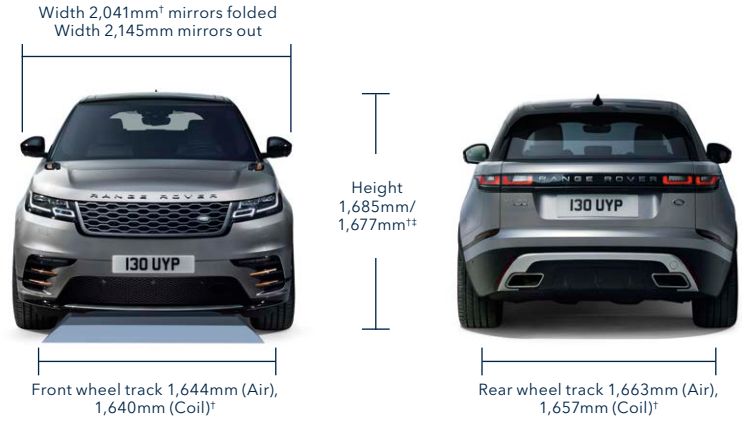
Off-road height 248mm††
 Standard ride height 196mm†

Turning Circle

Kerb-to-kerb 11.6m
 Wall-to-wall 12m†
 Turns lock-to-lock 2.52

Wading Depth

Maximum wading depth 600mm/650mm†



	A	B	C
Ride Height	Approach Angle†	Ramp Angle†	Departure Angle†
Off-road Air (Coil)	27.5° (25.1°)	24.9° (21.0°)	30.2° (26.8°)
Standard Air (Coil)	25.9° (25.3°)	21.0° (20.4°)	27.3° (27.3°)



*Dry: Volume as measured with VDA-compliant solid blocks (200mm x 50mm x 100mm). **Wet: Volume as measured by simulating the loadspace filled with liquid.
 †Figures shown may differ for 5.0L V8 Supercharged 550HP. †Electronic air suspension only.
 Vehicle shown is R-Dynamic HSE in Silicon Silver with optional features fitted.