

RANGE ROVER VELAR

TECHNICAL SPECIFICATION

MARCH 2019



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.

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TECHNICAL SPECIFICATION

			DIESEL						PETROL							
POWERTRAIN			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 (PS/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 - NEDC EQUIVALENT (NEDC2)*			Class A		Class B		Class A		Class B		Class A		Class B		Class B	
NEDC2 Consumption	Urban	l/100km (mpg)	6,7 (42,2)	6,9 (40,9)	7,6 (37,2)	7,8 (36,2)	7,6 (37,2)	7,8 (36,2)	7,6 (37,2)	7,8 (36,2)	9,4 (30,1)	9,5 (29,7)	10,0 (28,2)	10,1 (28,0)	16,7 (16,9)	
	Extra Urban	l/100km (mpg)	5,2 (54,3)	5,4 (52,3)	5,5 (51,4)	5,6 (50,4)	5,7 (49,6)	5,8 (48,7)	5,7 (49,6)	5,8 (48,7)	6,5 (43,5)	6,7 (42,2)	6,9 (40,9)	7,1 (39,8)	9,0 (31,5)	
	Combined	l/100km (mpg)	5,8 (48,7)	5,9 (47,9)	6,2 (45,6)	6,4 (44,1)	6,4 (44,1)	6,6 (42,8)	6,4 (44,1)	6,6 (42,8)	7,6 (37,2)	7,7 (36,7)	8,0 (35,3)	8,2 (34,4)	11,8 (23,9)	
NEDC2 CO ₂ Emissions	Urban	(g/km)	178	182	144	149	201	207	201	207	216	216	226	228	382	
	Extra Urban	(g/km)	138	143	201	206	150	154	150	154	148	153	156	160	205	
	Combined	(g/km)	152	157	165	169	169	173	169	173	173	177	182	185	270	
FUEL ECONOMY - WLTP**			TEL - TEH†		TEL - TEH†		TEL - TEH†		TEL - TEH†		TEL - TEH†		TEL - TEH†		TEH†	
WLTP Consumption	Low	l/100km (mpg)	8,7 (32,5) - 9,2 (30,5)		9,4 (29,9) - 10,0 (28,2)		9,5 (29,8) - 10,5 (26,8)		9,5 (29,8) - 10,5 (26,8)		12,2 (23,2) - 13,2 (21,4)		12,9 (21,9) - 13,7 (20,7)		18,4 (15,4)	
	Medium	l/100km (mpg)	6,5 (43,2) - 7,3 (38,8)		6,8 (41,8) - 7,7 (36,7)		7,1 (40,0) - 7,8 (36,1)		7,1 (40,0) - 7,8 (36,1)		8,9 (31,6) - 9,8 (28,9)		9,4 (30,1) - 10,3 (27,5)		12,1 (23,3)	
	High	l/100km (mpg)	5,7 (49,3) - 6,5 (43,7)		5,9 (47,8) - 6,7 (42,2)		6,2 (45,2) - 6,9 (40,7)		6,2 (45,2) - 6,9 (40,7)		7,8 (36,3) - 8,8 (32,2)		8,1 (35,0) - 8,9 (31,7)		10,5 (27,0)	
	Extra High	l/100km (mpg)	6,9 (40,7) - 7,8 (36,2)		6,8 (41,4) - 7,8 (36,0)		8,0 (35,4) - 8,5 (33,4)		8,0 (35,4) - 8,5 (33,4)		9,4 (30,2) - 10,5 (26,9)		9,5 (29,7) - 10,9 (26,0)		11,7 (24,2)	
	Combined	l/100km (mpg)	6,7 (42,0) - 7,5 (37,8)		6,9 (41,1) - 7,7 (36,5)		7,4 (38,0) - 8,1 (34,7)		7,4 (38,0) - 8,1 (34,7)		9,2 (30,8) - 10,2 (27,7)		9,5 (29,8) - 10,5 (26,9)		12,3 (23,0)	
WLTP CO ₂ Emissions	Low	(g/km)	228 - 243		248 - 262		249 - 277		249 - 277		276 - 300		292 - 309		418	
	Medium	(g/km)	172 - 191		177 - 202		185 - 205		185 - 205		202 - 222		212 - 232		275	
	High	(g/km)	150 - 170		155 - 176		164 - 182		164 - 182		177 - 199		182 - 202		238	
	Extra High	(g/km)	182 - 205		179 - 206		209 - 222		209 - 222		212 - 238		215 - 246		265	
	Combined	(g/km)	177 - 196		180 - 203		195 - 214		195 - 214		208 - 231		215 - 238		279	

■ Standard.

Class A (18" - 20" wheel) Class B (21" and 22" wheels with All Season and Summer Tyres).

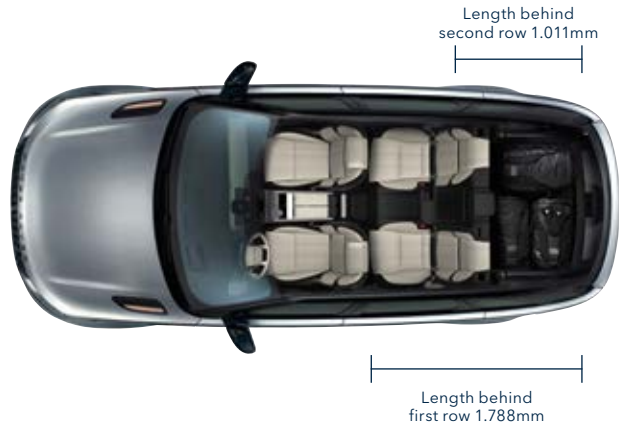
*The figures provided are NEDC2 calculated from official manufacturer's WLTP tests in accordance with EU legislation. For comparison purposes only. Real world figures may differ. CO₂ and fuel economy figures may vary according to wheel fitment and optional extras fitted. NEDC2 are figures calculated using a Government formula from WLTP figures equivalent to what they would have been under the old NEDC test. The correct tax treatment can then be applied. **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.

TECHNICAL SPECIFICATION

	DIESEL				PETROL		
	D180	D240	D275	D300	P250	P300	V8 SUPERCHARGED
FUEL ECONOMY - continued							
Fuel tank capacity - useable litres	60	60	60	60	82	82	82
Selective Catalytic Reduction Filter/ Gasoline Particulate Filter (SCR/F/GPF)	■	■	■	■	■	■	■
PERFORMANCE							
Acceleration (secs) 0-100 km/h (0-60mph)	8,9 (8,5)	7,4 (7,0)	7,0 (6,7)	6,7 (6,3)	7,1 (6,7)	6,2 (5,9)	4,5 (4,3)
Maximum speed km/h (mph)	193 (120)	217 (135)	218 (135)	241 (150) 220 (137) with 18" wheels	217 (135)	234 (145) 220 (137) with 18" wheels	274 (170)
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

[†]TEL (Test Energy Low) and TEH (Test Energy High) figures are shown as a range under WLTP testing measures. TEL refers to the lowest/most economical figures (with the lightest set of options). TEH refers to the highest/least economical figures (with the heaviest set of options). WLTP legislation dictates that where there is <5g CO₂ variance between TEL and TEH, only the TEH is declared. ^{††}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



Loadspace width (max) 1.247mm

Standard Ride Height†

With roof rails 1.659mm (Air) 1.667mm (Coil)
 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 1.045mm, 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

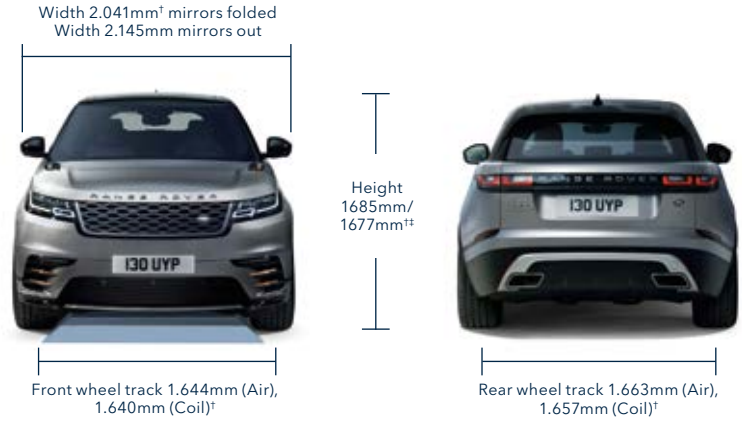
Off-road height 248mm††
 Standard ride height 213mm†

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)	25,93° (25,3°)	21,0° (20,4°)	27,3° (27,3°)



Wheelbase 2.874mm

*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 S50PS. †Electronic air suspension only.

Vehicle shown is R-Dynamic HSE in Silicon Silver with optional panoramic roof, Black contrast roof, privacy glass and 22" Style 9007, 9 split-spoke, Satin Light Silver with contrast Diamond Turned finish.