

RANGE ROVER VELAR

TECHNICAL SPECIFICATION 2020



ABOVE & BEYOND



ENGINES

You can select from a choice of diesel, petrol and Plug-in Hybrid 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

			DIESEL MHEV	
			D200	D300
POWERTRAIN				
Mild Hybrid Electric Vehicle (MHEV)			■	■
Transmission			Automatic	Automatic
Driveline			All Wheel Drive (AWD)	All Wheel Drive (AWD)
Maximum power HP/kW/rpm			204 / 150 / 4,250	300 / 221 / 4,000
Maximum torque (Nm/rpm)			430 / 1,750 - 2,500	650 / 1,500 - 2,500
Capacity (cc)			1,997	2,996
No. of cylinders/Valves per cylinder			4 / 4	6 / 4
Cylinder layout			In-line	In-line
Bore/stroke (mm)			83 / 92.31	83 / 92.31
Compression ratio (:1)			16.5+ / -0.5	15.5
FUEL ECONOMY - WLTP*				
WLTP Consumption	Low	mpg (l/100km)	37.4 - 36.0 (7.6 - 7.8)	26.8 - 25.7 (10.5 - 11.0)
	Medium	mpg (l/100km)	45.9 - 42.1 (6.2 - 6.7)	36.7 - 36.2 (7.7 - 7.8)
	High	mpg (l/100km)	52.1 - 46.6 (5.4 - 6.1)	47.4 - 42.8 (6.0 - 6.6)
	Extra High	mpg (l/100km)	42.4 - 37.3 (6.7 - 7.6)	38.9 - 34.8 (7.3 - 8.1)
	Combined	mpg (l/100km)	44.9 - 40.6 (6.3 - 7.0)	38.2 - 35.5 (7.4 - 8.0)
WLTP CO ₂ Emissions	Combined	g/km	165 - 183	194 - 209
Fuel tank capacity - useable litres			60	66
Selective Catalytic Reduction Filter/ Gasoline Particulate Filter (SCR/F/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 lowest figures refer to the most economical/lightest set of options. The highest figures refer to the least economical/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

	DIESEL MHEV	
	D200	D300
PERFORMANCE		
Acceleration (secs) 0-60mph (0-100 km/h)	7.7 (8.2)	6.1 (6.5)
Maximum speed mph (km/h)	130 (210)	143 (230)
BRAKES		
Front type	Single piston sliding caliper, vented disc	Single piston sliding caliper, vented disc
Front diameter (mm)	350	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)*		
Unladen weight (EU)**	2,003	2,124
Unladen weight (DIN)†	1,928	2,049
Gross Vehicle Weight (GVW)	2,590	2,710
TOWING (kg)		
Unbraked trailer	750	750
Maximum towing	2,400	2,500
Maximum coupling point (nose weight)	100	100
Maximum vehicle and trailer combination	4,990	5,210
ROOF CARRYING (kg)		
Maximum roof load (including cross bars)	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.

ENGINES

POWERTRAIN

Mild Hybrid Electric Vehicle (MHEV)

Transmission

Driveline

Maximum power HP/kW/rpm

Maximum torque (Nm/rpm)

Capacity (cc)

No. of cylinders/Valves per cylinder

Cylinder layout

Bore/stroke (mm)

Compression ratio (:1)

FUEL ECONOMY - WLTP*

WLTP Consumption	Low	mpg (l/100km)
	Medium	mpg (l/100km)
	High	mpg (l/100km)
	Extra High	mpg (l/100km)
	Combined	mpg (l/100km)
WLTP CO ₂ Emissions	Combined	g/km
Fuel tank capacity - useable litres		
Selective Catalytic Reduction Filter/ Gasoline Particulate Filter (SCR/F/GPF)		

	PETROL	PETROL MHEV
	P250	P400
	-	■
	Automatic	Automatic
	All Wheel Drive (AWD)	All Wheel Drive (AWD)
	250 / 184 / 5,000	400 / 294 / 5,500 - 6,500
	365 / 1,300 - 4,500	550 / 2,000 - 5,000
	1,997	2,995
	4 / 4	6 / 4
	In-line	In-line
	83 / 92.29	83 / 92.3
	10.5+ / -0.5	10.5
	22.3 - 21.4 (12.7 - 13.2)	19.4 - 18.9 (14.5 - 14.9)
	30.5 - 28.0 (9.3 - 10.1)	29.1 - 27.0 (9.7 - 10.4)
	35.3 - 31.4 (8.0 - 9.0)	33.8 - 31.7 (8.4 - 8.9)
	30.2 - 26.2 (9.3 - 10.8)	30.1 - 27.3 (9.4 - 10.4)
	30.2 - 27.1 (9.4 - 10.4)	28.8 - 26.8 (9.8 - 10.5)
	211 - 235	221 - 238
	82	82
	■	■

■ Standard - Not Available.

*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 lowest figures refer to the most economical/lightest set of options. The highest figures refer to the least economical/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

	PETROL	PETROL MHEV
	P250	P400
PERFORMANCE		
Acceleration (secs) 0-60mph (0-100 km/h)	7.1 (7.5)	5.2 (5.5)
Maximum speed mph (km/h)	135 (217)	155 (250)
BRAKES		
Front type	Single piston sliding caliper, vented disc	Single piston sliding caliper, vented disc
Front diameter (mm)	350	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)*		
Unladen weight (EU)**	1,950	2,085
Unladen weight (DIN)†	1,875	2,010
Gross Vehicle Weight (GVW)	2,550	2,670
TOWING (kg)		
Unbraked trailer	750	750
Maximum towing	2,400	2,500
Maximum coupling point (nose weight)	100	100
Maximum vehicle and trailer combination	4,950	5,170
ROOF CARRYING (kg)		
Maximum roof load (including cross bars)	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.

ENGINES

POWERTRAIN

Transmission
Driveline
Maximum power HP/kW/rpm
Maximum torque (Nm/rpm)
Capacity (cc)
No. of cylinders/Valves per cylinder
Cylinder layout
Bore/stroke (mm)
Compression ratio (:1)

FUEL ECONOMY - WLTP**

WLTP Consumption	Combined	mpg (l/100km)
WLTP CO ₂ Emissions	Combined	g/km
EV Range (eAER)	Combined	miles (km)
Fuel tank capacity - useable litres		
Selective Catalytic Reduction Filter/ Gasoline Particulate Filter (SCR/F/GPF)		

PETROL PHEV		
P400e		
Automatic		
All Wheel Drive (AWD)		
404 / 297 / 5,500*		
640 / 1,500 - 4,400*		
1,997		
4 / 4		
In-line		
83 / 92.3		
9.5+ / -0.5		
130.2 - 109.9 (2.2 - 2.6)		
49 - 58		
Up to 33 (53)		
69		
■		

■ Standard.

*When combined with electric motor.
 **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 lowest figures refer to the most economical/lightest set of options. The highest figures refer to the least economical/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

Acceleration (secs) 0-60mph (0-100 km/h)

Maximum speed mph (km/h)

ELECTRIC MOTOR DATA

Maximum power (kW)

Maximum torque (Nm)

BRAKES

Front type

Front diameter (mm)

Rear type

Rear diameter (mm)

Park Brake

WEIGHTS (kg)*

Unladen weight (EU)**

Unladen weight (DIN)†

Gross Vehicle Weight (GVW)

TOWING (kg)

Unbraked trailer

Maximum towing

Maximum coupling point (nose weight)

Maximum vehicle and trailer combination

ROOF CARRYING (kg)

Maximum roof load (including cross bars)

PETROL PHEV

P400e

5.1 (5.4)

149 (240)

105

275

Single piston sliding caliper, vented disc

370

Single piston sliding caliper, vented disc

325

iEPB, motor on caliper

2,233

2,158

2,720

750

2,000

100

4,720

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

Maximum height 1,678mm (Air) 1,683mm (Coil)
 Access height air suspension setting will reduce 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 1,245mm
 Loadspace width between arches 1,050mm
 Maximum loadspace volume behind first row
 Dry* 1,374 litres, Wet** 1,811 litres
 Maximum loadspace volume behind second row
 Dry* 568 litres, Wet** 748 litres

OBSTACLE CLEARANCE

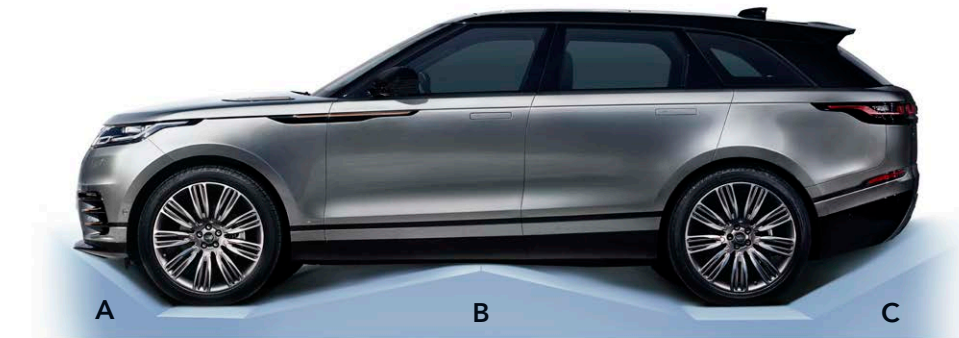
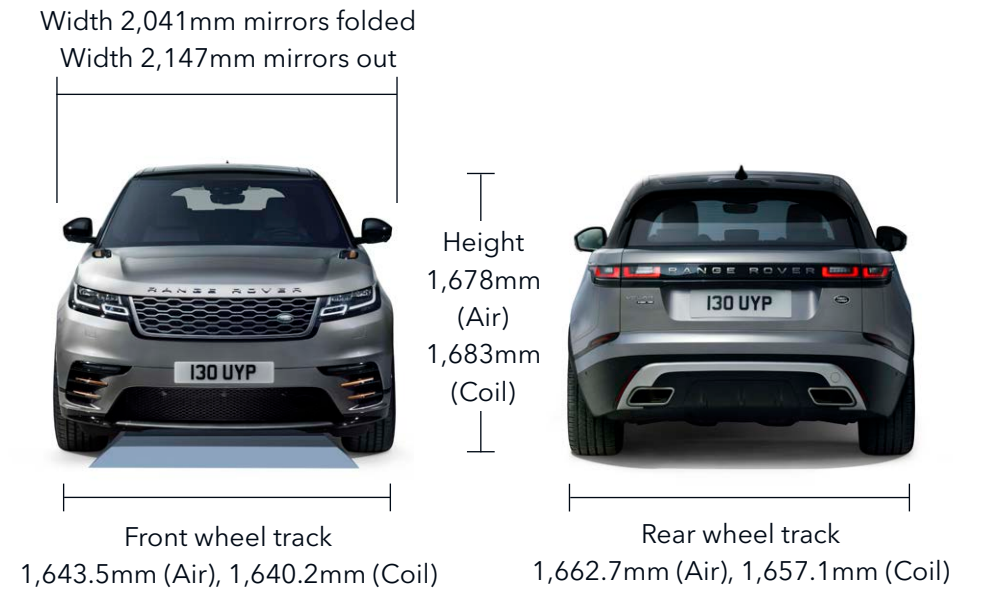
Off-road height 251mm[†]
 Standard ride height 205mm[†]

TURNING CIRCLE

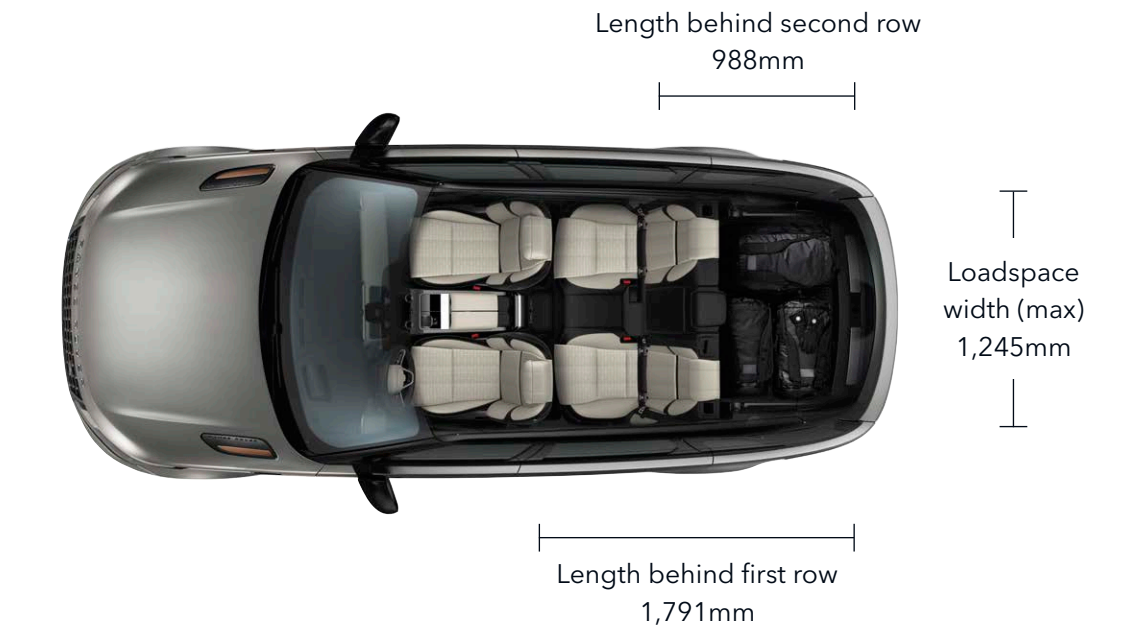
Kerb-to-kerb 11.94m
 Wall-to-wall 12m
 Turns lock-to-lock 2.52

WADING DEPTH

Maximum wading depth 530mm / 580mm[†]



	A	B	C
Ride Height	Approach Angle	Ramp Angle	Departure Angle
Off-road Air (Coil)	27.5° (25.0°)	23.5° (22.0°)	29.5° (27.0°)
Standard Air (Coil)	22.5° (23.6°)	18.3° (19.1°)	24.8° (25.0°)



Wheelbase 2,874mm



*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). **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). [†]Electronic air suspension only.

Vehicle shown is R-Dynamic HSE in Silicon Silver with optional features fitted.

Figures may vary for P400e models.