TECHNICAL SPECIFICATION 2023



RANGE ROVER

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.

Configure your Range Rover Velar at landrover.com



ENGINES

View the available engines, their fuel economy and specifications.



DIMENSIONS AND CAPABILITIES

View the ride height, turning circle and other capability specifications.

			PETROL ELECTRIC HYBRID (PHEV)	
ENGINE			P400e	
Fransmission			Automatic	
Driveline			All Wheel Drive (AWD)	
Maximum power (PS / kW / rpm)			404 / 297 / 5,500*	
/laximum torque (Nm / rpm)			640 / 1,500-4,400*	
Capacity (cc)			1,998	
No. of cylinders / Valves per cylin	der		4 / 4	
Cylinder layout			Inline	
Bore / stroke (mm)			83 / 92.3	
Compression ratio (:1)			9.5	
UEL ECONOMY – WLTP**				
NLTP Consumption	Combined	mpg (l/100km)	176.6-148.7 (1.6-1.9)	
VLTP CO ₂ Emissions Combined (g/km)		(g/km)	38-43	
Fuel tank capacity - useable litres			69	
Selective Catalytic Reduction Filter / Gasoline Particulate Filter (SCRF / GPF)				
EV Range Combined (WLTP**) miles (km)			40-38 (64-61)	

-		
_	PETROL ELECTRIC HYBRID (PHEV)	
BATTERY AND CHARGING TIMES	P400e	
Home Charger / Wall box 7kW	2 hours 30 minutes to 100%	
Rapid DC Charger 50kW*	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) 0-60 mph (0-100 km/h)	5.1 (5.4)	
Maximum speed mph (km/h)	130 (209)	
ELECTRIC MOTOR DATA		
Maximum power PS (kW)	143 (105)	
Maximum torque (Nm)	275	
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	

			PETROL MILD HYBRID (MHEV)	
ENGINE			P400	
Mild Hybrid Electric Vehicle (M	HEV)			
Transmission			Automatic	
Driveline			All Wheel Drive (AWD)	
Maximum power (PS / kW / rpn	n)		400 / 294 / 5,500-6,500	
Maximum torque (Nm / rpm)			550 / 2,000-5,000	
Capacity (cc)			2,997	
No. of cylinders / Valves per cyl	linder		6 / 4	
Cylinder layout			Inline	
Bore / stroke (mm)			83 / 92.3	
Compression ratio (:1)			10.5	
FUEL ECONOMY - WLTP*				
	Low	mpg (l/100km)	19.6-19.0 (14.4-14.9)	
	Medium	mpg (l/100km)	29.7-28.2 (9.5-10.0)	
WLTP Consumption	High	mpg (l/100km)	34.9-32.8 (8.1-8.6)	
consumption	Extra High	mpg (l/100km)	30.7-28.5 (9.2-9.9)	
	Combined	mpg (l/100km)	29.4-27.7 (9.6-10.2)	
	Low	(g/km)	328-341	
WLTP CO ₂ Emissions	Medium	(g/km)	217-227	
	High	(g/km)	185-196	
	Extra High	(g/km)	209-226	
	Combined	(g/km)	219-232	
Fuel tank capacity - useable litres			83	
Selective Catalytic Reduction Filter / Gasoline Particulate Filter (SCRE / GPE)		E / GPE)	•	

Selective Catalytic Reduction F	ilter / Gasoline Particulate Filter (SCF	F / GPF)	
Fuel tank capacity - useable litres			83
	Combined	(g/km)	219-232
	Extra High	(g/km)	209-226
WLTP CO ₂ Emissions	High	(g/km)	185-196
	Medium	(g/km)	217-227
	Low	(g/km)	328-341
	Combined	mpg (l/100km)	29.4-27.7 (9.6
concamption	Extra High	mpg (l/100km)	30.7-28.5 (9.
WLTP Consumption	High	mpg (l/100km)	34.9-32.8 (8.
	Medium	mpg (l/100km)	29.7-28.2 (9.5
	Low	mpg (l/100km)	19.6-19.0 (14.

■ Standard.

*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) 0-60 mph (0-100 km/h)	5.2 (5.5)		
Maximum speed mph (km/h)	155 (250)*		
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		

	PETRO
ENGINE	P250
Transmission	Automati
Driveline	All Wheel Drive
Maximum power (PS / kW / rpm)	250 / 184 / 5
Maximum torque (Nm / rpm)	365 / 1,300-4
Capacity (cc)	1,998
No. of cylinders / Valves per cylinder	4 / 4
Cylinder layout	In-line
Bore / stroke (mm)	83 / 92.3
Compression ratio (:1)	10.5

FUEL ECONOMY – WLTP*

Selective Catalytic Reduction F	ilter / Gasoline Particulate Filter (SCR	F / GPF)	
Fuel tank capacity - useable litres			83
	Combined	(g/km)	211-226
	Extra High	(g/km)	214-228
WLTP CO ₂ Emissions	High	(g/km)	180-195
	Medium	(g/km)	205-221
	Low	(g/km)	286-304
	Combined	mpg (l/100km)	30.7-28.5 (9.2
Consumption	Extra High	mpg (l/100km)	30.1-28.2 (9.4
WLTP Consumption	High	mpg (l/100km)	35.8-32.8 (7.9
	Medium	mpg (l/100km)	31.4-29.1 (9.0
	Low	mpg (l/100km)	22.6-21.2 (12.5

■ Standard.

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04 221 95 228	9.4-10.0)
21 95 28	9.2-9.9)
95 28	04
28	21
	95
	28
26	26

PETROL
P250
7.1 (7.5)
135 (217)
Single piston sliding caliper, vented disc
350
Single piston sliding caliper, vented disc
325
iEPB, motor on caliper
1,950
1,875
2,550
750
2,400
100
4,950
79

			DIESEL MILD H	HYBRID (MHEV)	
ENGINE			D300	D200	
Mild Hybrid Electric Vehicle (MH	HEV)				
Transmission			Automatic	Automatic	
Driveline			All Wheel Drive (AWD)	All Wheel Drive (AWD)	
Maximum power (PS / kW / rpm	ר)		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)			2,998	1,998	
No. of cylinders / Valves per cyli	inder		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 – WLTP*					
	Low	mpg (l/100km)	27.2-25.2 (10.4-11.2)	37.7-35.3 (7.5-8.0)	
	Medium	mpg (l/100km)	37.2-35.8 (7.6-7.9)	44.8-40.9 (6.3-6.9)	
WLTP Consumption	High	mpg (l/100km)	49.6-46.3 (5.7-6.1)	50.4-46.3 (5.6-6.1)	
consumption	Extra High	mpg (l/100km)	39.8-36.7 (7.1-7.7)	41.5-37.7 (6.8-7.5)	
	Combined	mpg (l/100km)	39.2-36.7 (7.2-7.7)	44.1-40.4 (6.4-7.0)	
	Low	(g/km)	272-294	196-209	
	Medium	(g/km)	198-206	165-180	
WLTP CO ₂ Emissions	High	(g/km)	149-159	146-160	
	Extra High	(g/km)	185-201	177-196	
	Combined	(g/km)	188-202	168-183	
Fuel tank capacity - useable litres			68	62	
Selective Catalytic Reduction Filter / Gasoline Particulate Filter (SCRF / GPF)					

Standard.

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	DIESEL MILD HYBRID (MHEV)		
PERFORMANCE	D300	D200	
Acceleration (secs) 0-60 mph (0-100 km/h)	6.1 (6.5)	7.8 (8.3)	
Maximum speed mph (km/h)	143 (230)*	130 (210)	
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)**			
Jnladen weight (EU)†	2,124	2,003	
Jnladen 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	

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) 251mm⁺ (Coil) 213mm Standard ride height (Air) 205mm⁺ (Coil) 214mm

APPROACH AND DEPARTURE CLEARANCE

Standard Air (Coil)

Approach Angle - 22.5° (23.6°) Departure Angle - 24.8° (25.0°) Ramp Angle - 18.3° (19.1°)

Off-road Air (Coil)

Approach Angle - 27.5° (25.0°) Departure Angle - 29.5° (27.0°) Ramp Angle - 23.5° (22.0°)



*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. †Electronic air suspension only.

Vehicle shown is Dynamic HSE in Zadar Grey 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.

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