

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.

| | | | PETROL ELECTRIC HYBRID (PHEV) | |
|---|----------|-----------|-------------------------------|--|
| ENGINE | | | P400e | |
| Transmission | | | Automatic | |
| Driveline | | | All Wheel Drive (AWD) | |
| Maximum power (PS / kW / rpm |) | | 404 / 297 / 5.500* | |
| Maximum torque (Nm / rpm) | | | 640 / 1.500-4.400* | |
| Capacity (cc) | | | 1.997 | |
| No. of cylinders / Valves per cyli | nder | | 4 / 4 | |
| Cylinder layout | | | Inline | |
| Bore / stroke (mm) | | | 83 / 92,3 | |
| Compression ratio (:1) | | | 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 | 1,7-1,9 (163,3-150,3) | |
| WLTP CO ₂ Emissions | Combined | (g/km) | 39-43 | |
| Fuel tank capacity - useable litres | | | 69 | |
| Selective Catalytic Reduction Filter / Gasoline Particulate Filter (SCRF / GPF) | | RF / 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.

| | 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 (0-60 mph) | 5,4 (5,1) | | |
| Maximum speed km/h (mph) | 209 (130) | | |
| 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 (miles) | 63-62 (39-39) | | |
| EV Range expected Real World data (up to) km (miles) | 49 (30) | | |
| 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 | P340 | |
| Mild Hybrid Electric Vehicle (MF | HEV) | | • | | |
| Transmission | | | Automatic | Automatic | |
| Driveline | | | All Wheel Drive (AWD) | All Wheel Drive (AWD) | |
| Maximum power (PS / kW / rpm | 1) | | 400 / 294 / 5.500-6.500 | 340 / 250 / 5.500-6.500 | |
| Maximum torque (Nm / rpm) | | | 550 / 2.000-5.000 | 480 / 1.500-4.500 | |
| Capacity (cc) | | | 2.996 | 2.996 | |
| Io. of cylinders / Valves per cyli | inder | | 6 / 4 | 6 / 4 | |
| Cylinder layout | | | Inline | Inline | |
| Bore / stroke (mm) | | | 83 / 92,3 | 83 / 92,3 | |
| Compression ratio (:1) | | | 10,5 | 10,5 | |
| FUEL ECONOMY* | | | | | |
| Consumption | Combined | l/100km | 9,1 | 9,1 | |
| CO ₂ Emissions | Combined | (g/km) | 206 | 206 | |
| FUEL ECONOMY – WLTP** | | | | | |
| | Low | l/100km (mpg) | 14,3-14,9 (19,8-18,9) | | |
| | Medium | l/100km (mpg) | 9,5-10,0 (29,8-28,4) | - | |
| VLTP Consumption | High | l/100km (mpg) | 8,1-8,6 (34,9-32,8) | - | |
| onsumption | Extra High | l/100km (mpg) | 9,1-9,9 (30,9-28,5) | - | |
| | Combined | l/100km (mpg) | 9,6-10,2 (29,5-27,7) | - | |
| | Low | (g/km) | 326-341 | - | |
| | 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 litres | | | 83 | 83 | |
| Selective Catalytic Reduction Filter / Gasoline Particulate Filter (SCRF / GPF) | | | | | |

[■] Standard - Not Available.

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| | PETROL MILD HYBRID (MHEV) | | |
|---|--|--|--|
| PERFORMANCE | P400 | P340 | |
| Acceleration (secs) 0-100 km/h (0-60 mph) | 5,5 (5,2) | 6,3 (6,0) | |
| Maximum speed km/h (mph) | 250 (155)* | 240 (149)* | |
| BRAKES | | | |
| Front type | Single piston sliding caliper, vented disc | Single piston sliding caliper, vented disc | |
| Front diameter (mm) | 370 | 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)** | | | |
| Inladen weight (EU)† | 2.085 | 2.085 | |
| nladen weight (DIN)†† | 2.010 | 2.010 | |
| Gross Vehicle Weight (GVW) | 2.670 | 2.670 | |
| OWING (kg) | | | |
| Jnbraked trailer | 750 | 750 | |
| Maximum towing | 2.500 | 2.500 | |
| Maximum coupling point (nose weight) | 100 | 100 | |
| Maximum vehicle and trailer combination | 5.170 | 5.170 | |
| ROOF CARRYING (kg) | | | |
| Maximum roof load (including cross bars) | 79 | 79 | |

| | | | PETROL | | |
|---|----------|---------|-----------------------|--|--|
| ENGINE | | | P250 | | |
| Transmission | | | Automatic | | |
| Driveline | | | All Wheel Drive (AWD) | | |
| Maximum power (PS / kW / rp | om) | | 250 / 183.9 / 5.500 | | |
| Maximum torque (Nm / rpm) | | | 365 / 1.300-4.500 | | |
| Capacity (cc) | | | 1.997 | | |
| No. of cylinders / Valves per c | ylinder | | 4 / 4 | | |
| Cylinder layout | | | In-line | | |
| Bore / stroke (mm) | | | 83 / 92,3 | | |
| Compression ratio (:1) | | | 10,5 | | |
| FUEL ECONOMY* | | | | | |
| Consumption | Combined | l/100km | 8,0 | | |
| CO ₂ Emissions | Combined | (g/km) | 182 | | |
| Fuel tank capacity - useable litres | | | 83 | | |
| Selective Catalytic Reduction Filter / Gasoline Particulate Filter (SCRF / GPF) | | | | | |

[■] Standard.

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| | DET DOL | | |
|---|--|--|--|
| | PETROL | | |
| PERFORMANCE | P250 | | |
| Acceleration (secs) 0-100 km/h (0-60 mph) | 7,5 (7,1) | | |
| Maximum speed km/h (mph) | 217 (135) | | |
| BRAKES | | | |
| Front type | Single piston sliding caliper, vented disc | | |
| Front diameter (mm) | 350 | | |
| Rear type | Single piston sliding caliper, vented disc | | |
| Rear diameter (mm) | 325 | | |
| Park Brake | iEPB, motor on caliper | | |
| WEIGHTS (kg)* | | | |
| Unladen weight (EU)** | 1.950 | | |
| Unladen weight (DIN) [†] | 1.875 | | |
| Gross Vehicle Weight (GVW) | 2.550 | | |
| TOWING (kg) | | | |
| Unbraked trailer | 750 | | |
| Maximum towing | 2.400 | | |
| Maximum coupling point (nose weight) | 100 | | |
| Maximum vehicle and trailer combination | 4.950 | | |
| ROOF CARRYING (kg) | | | |
| Maximum roof load (including cross bars) | 79 | | |
| | | | |

| | | | DIESEL MILD HYBRID (MHEV) | |
|---|------------|---------------|---------------------------|-------------------------|
| ENGINE | | | D300 | D200 |
| Mild Hybrid Electric Vehicle (MH | IEV) | | • | |
| Transmission | | | Automatic | Automatic |
| Driveline | | | All Wheel Drive (AWD) | All Wheel Drive (AWD) |
| Maximum power (PS / kW / rpm |) | | 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 cyli | nder | | 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 | I/100km | 7,0 | 5,7 |
| CO ₂ Emissions | Combined | (g/km) | 185 | 150 |
| FUEL ECONOMY – WLTP** | | | | |
| | Low | l/100km (mpg) | 10,4-11,2 (27,2-25,1) | 7,4-7,9 (38,0-35,6) |
| | Medium | l/100km (mpg) | 7,6-7,9 (37,2-35,9) | 6,3-6,8 (45,1-41,4) |
| WLTP Consumption | High | l/100km (mpg) | 5,7-6,1 (49,6-46,4) | 5,5-6,1 (51,1-46,5) |
| Consumption | Extra High | l/100km (mpg) | 7,1-7,7 (40,0-36,7) | 6,7-7,4 (41,8-38,0) |
| | Combined | l/100km (mpg) | 7,2-7,7 (39,3-36,6) | 6,4-7,0 (44,3-40,5) |
| | 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 |
| | Extra High | (g/km) | 185-201 | 177-195 |
| | Combined | (g/km) | 188-202 | 167-183 |
| Fuel tank capacity - useable litre | es . | | 68 | 62 |
| Selective Catalytic Reduction Filter / Gasoline Particulate Filter (SCRF / GPF) | | RF / GPF) | • | |

■ Standar

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| | 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 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



Maximum height 1.678mm (Air) 1.683mm (Coil)

Width 2.041mm mirrors folded Width 2.147mm mirrors out



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.

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.