

Polestar 1 – Technical Data (Europe)

Chassis and body

Body Type	Carbon fibre reinforced polymer body Steel SPA platform
-----------	--

Wheels, tyres, brakes, suspension

Wheels	21" alloy
Tyres	Pirelli P Zero Front: 275/30 R21 Rear: 295/30 R21
Brakes	Akebono 6-piston callipers (front) / standard callipers (rear)
Discs (front and rear)	400x38 mm and 390x25 mm
Turning Circle	Kerb to kerb: 11.4 m
Suspension	Öhlins Dual Flow Valve (DFV) manually adjustable dampers Double wishbone (front) Integral link (rear)

Petrol engine

Type	2-litre in-line 4-cylinder supercharged and turbocharged
Maximum Power	309 hp at 6,000 rpm
Maximum Torque	435 Nm at 2,600-4,200 rpm (321 lb.-ft.)
Maximum rpm	6,000 rpm

Electric motors (2)

Type	Double Electric Rear Axle (ERAD)
Power	2 x 85 kW = 170 kW (232 hp)
Torque	2 x 240 Nm = 480 Nm (354 lb.-ft.)

C-ISG (Crank-Integrated Starter Generator)

Power	52 kW (68 hp)
Torque	161 Nm (119 lb-ft)

Combined output

Total power	609 hp
Maximum torque	1,000 Nm (738 lb-ft)

Efficiency (WLTP)

Fuel economy (weighted, combined)	0.7-litres per 100 km
Carbon emissions	15 g/km CO ₂
Electricity consumption	255 Wh/km
Electric range	124 km (77 miles) WLTP
Drag coefficient	0.365 (wing up), 0.372 (wing down)

Transmission

Type	FWD
Gearbox	8-speed automatic gearbox
Gear Ratios	1: 5.250 2: 3.029 3: 1.950 4: 1.457 5: 1.221 6: 1.000 7: 0.809 8: 0.673 Reverse: 4.015

Drive modes

Pure	Rear electric motors only
Hybrid (default)	Rear electric motors prioritised, combustion engine when required
Power	Rear electric motors and combustion engine, maximum power
AWD	Rear electric motors and combustion engine, balanced power
Individual	Customisable to driver preferences

Battery and charging

Type	High-voltage Li-Ion 348V 102Ah, 34kWh arranged in 2 packs
Charging Capability	AC: Up to 11kW (1 or 3 phase), on-board charger DC: Up to 50kW
Placement	Central in the tunnel of the car and over rear axle
Charging Times	AC 3-phase 16A: 3 hours DC 50 kW: less than one hour

Performance

Top speed	Combined: 250 km/h (155 mph) Electric only: 160 km/h (100 mph)
Acceleration	0-100 km/h (combined, in Power mode): 4.2 seconds

Dimensions and weight

Wheelbase	2742 mm
Length	4586 mm
Height	1352 mm
Body width	1958 mm (excluding mirrors), 2023 mm (including mirrors)
Track	1645 mm (front), 1657 mm (rear)
Overhang	875 mm (front), 969 mm (rear)
Ground clearance	142 mm
Head room	965 mm (front), 845 mm (rear)
Shoulder room	1430 mm (front), 1262 mm (rear)
Hip room	1400 mm (front), 1100 mm
Leg room	1066 mm (front), 531 mm (rear)
Kerb weight	2350 kg
Weight distribution	48% (front), 52% (rear)

Capacities

Fuel tank	60 litres
Luggage compartment	143 litres (126 litres with charge cable storage bag fitted)

Standard equipment

- Electronic climate control, 2-zone
- CleanZone with pre-ventilation + multifilter
- Full parking climate and preconditioning
- Heated front seats
- Windscreen washers (heated Aquablades)
- Rain sensor
- Heated steering wheel
- Alarm
- Interior alarm motion sensor
- Double-locking door locks
- Alarm inclination sensor
- Lockable glovebox
- Private locking
- Polestar remote key fob
- Keyless entry with handsfree boot lid opening
- Soft close for boot lid
- Lock switch for front doors
- Laminated side windows
- Nappa leather sport seats
- Power driver seat, memory
- Power passenger seat, memory
- 4-Way power adjustable lumbar support
- Mechanical cushion extension, front seats
- Fixed rear seat
- Integrated rear headrests
- Carbon fibre decor inlays
- Charcoal headlining
- Polestar leather steering wheel
- Gear shift paddles
- Crystal gear lever with engraved floating Polestar logo
- Sport pedals
- Textile floor mats, Front
- Net pocket on tunnel console
- Tyre repair kit
- Jack
- First aid kit
- Warning triangle
- 12V power outlet, luggage area
- Frameless side mirrors, electric and heated
- Automatic dimming exterior and interior mirrors with new grey colour tone
- LED Active Bending Headlights with Cornering Lights
- High-pressure headlight cleaning
- Interior illumination
- Adjustable speed limiter with speed sign support
- Pilot Assist
- Adaptive Cruise Control
- Front collision mitigation with steering support
- Lane Keeping Aid with steering support
- Blind Spot Information System with steering support
- Cross Traffic Alert with autobrake
- 360° camera
- Hill Start Assist
- Storage bag for charge cord
- Driver and passenger front airbags
- Knee airbag, driver's side
- SIPS airbags
- Inflatable curtain airbags
- Whiplash protection, front seats
- Cut-off switch, passenger airbag
- Intelligent Driver Information System (IDIS)
- Premium sound, Bowers & Wilkins with 15 speakers
- 12.3-inch driver display
- Full graphical head-up display
- 2 USB connectors, front
- Navigation
- Road Sign Information, RSI
- Polestar Connected Services
- Apple CarPlay
- Android Auto
- Digital Audio Broadcasting, DAB
- Lockable wheelnuts
- Tyre Pressure Monitoring System, TPMS

Polestar

