

2025 Volvo EX90 Technical Specifications

	Twin motor (5, 6 & 7 seat)	Twin Performance (6 & 7 seat)
ENGINE		
Engines	E400V3	E400V7
Type	Electric motor	Electric motors
Configuration	AWD	AWD
Max output, kW (hp)/rpm	300 kW (408 hp) / 4000 rpm - 4500 rpm / 3500 rpm - 13900 rpm	380 kW (517 hp) / 4200 rpm - 6000 rpm / 3900 rpm - 5500 rpm
Max torque, Nm/rps	770 Nm (420 + 350) / 0 rps - 67 rps / 0 rps - 50 rps	910 Nm / 0 rps - 67 rps / 0 rps - 65 rps
Battery type	Lithium-ion battery	Lithium-ion battery
Battery content, total amount of energy (kWh) (Nominal)	111	111
Battery content, total amount of energy (kWh) (Usable ³)	107	107
BATTERY CHARGING TIME ¹ - DC - (10% - 80%) 50 kW (Charging power) (minutes) / 150 kW (Charging power) (minutes) / *** / 200 kW (Charging power) (minutes) / 250 kW (Charging power) (minutes) /	92 / 35 / 34 / 32 / 30	92 / 35 / 34 / 32 / 30
BATTERY CHARGING TIME ² - AC 3-phase, 0 - 100% 6 A (Charging power) (hours) / 10 A (Charging power) (hours) / 16 A (Charging power) (hours)	28 / 16 / 10	28 / 16 / 10
BATTERY CHARGING TIME ² - AC 1-phase (200-240V) - (0 - 100%) 6 A (Charging power) (hours) / 10 A (Charging power) (hours) / 16 A (Charging power) (hours) / 32 A (Charging power) (hours) / 48 A (Charging power) (hours)	n/a / 45 / 29 / 15 / 10	n/a / 45 / 29 / 15 / 10
Electrical motor max power (kW)	300 kW	380 kW
Electrical motor max torque (Nm)	770 Nm	910 Nm
*250kW requires a 670A charger.		
² Charging time can vary depending on vehicle climatization and other active electric loads in the vehicle. Charging time as well depends on e.g. ambient temperature		
³ Average figures		
*** 40A Charger limit		
PERFORMANCE		
Performance	Shift-by-wire	Shift-by-wire
Acceleration, 0-100 km/h	5.9 sec	4.9 sec
Top speed	180 km/h	180 km/h
Electric Range [EAER] WLTP, City.	817 km - 780 km	817 km - 780 km
Electric Range [EAER] WLTP, Comb.	614 km - 570 km	614 km - 570 km
Electric Consumption	20.8 kWh/100 km - 22.0 kWh/100 km	20.8 kWh/100 km - 22.0 kWh/100 km
DIMENSIONS EXTERIOR		
Length (L103)	5037 mm	5037 mm
Wheelbase (L101)	2985 mm	2985 mm
Front Overhang (L104)	920 mm	920 mm
Rear Overhang (L105)	1132 mm	1132 mm
Height (Including shark fen) (at curb weight) (H101)	1747 mm	1747 mm
Height (Including shark fen) (at curb weight + 1 person) (H101)	1744 mm	1744 mm
Height with open tailgate/trunklid (H110)	2178 mm	2178 mm
Width (Body width) (W103)	1964 mm	1964 mm
Width (mirrors folded) (W145)	2039 mm	2039 mm
Width (Including mirrors) (W144)	2113 mm	2113 mm
Body width (W116)	1964 mm	1964 mm
Track, front (depending on rim size) (at curb weight + 1 person) (W101-1)	1672 mm - 1676 mm	1672 mm - 1676 mm
Track, front (depending on rim size) (at curb weight + 1 person) (W101-2)	1666 mm - 1677 mm	1666 mm - 1677 mm
DIMENSIONS INTERIOR		
Headroom with panoramic roof (front) (Maximum) (H62-1 SR)	1122 mm	1122 mm
Headroom with panoramic roof (front / rear / third row) (H61-1 SR / H61-2 SR / H61-3 SR)	1075 mm / 1058 mm 1075 mm / 1056 mm / 909 mm 1075 mm / 1056 mm / 909 mm	1075 mm / 1056 mm / 909 mm 1075 mm / 1056 mm / 909 mm
Passenger compartment width at shoulder height (front / rear / third row) (W3-1 / W3-2 / W3-3)	1475 mm / 1462 mm 1475 mm / 1467 mm / 1186 mm 1475 mm / 1467 mm / 1186 mm	1475 mm / 1467 mm / 1186 mm 1475 mm / 1467 mm / 1186 mm
Leg room (front / rear / third row) (L34 / L51-2 / L51-3)	1039 mm / 960 mm 1039 mm / 926 mm / 811 mm 1039 mm / 926 mm / 811 mm	1039 mm / 926 mm / 811 mm 1039 mm / 926 mm / 811 mm
Hip room (front / rear / third row) (W5-1 / W5-2 / W5-3)	1422 mm / 1434 mm 1422 mm / 1434 mm / 1096 mm 1422 mm / 1434 mm / 1096 mm	1422 mm / 1434 mm / 1096 mm 1422 mm / 1434 mm / 1096 mm
GROUND CLEARANCE		
Ground clearance (at curb weight) (H156)	216 mm	216 mm
Ground clearance (at curb weight) (with air suspension) (H156)	210 mm - 250 mm	210 mm - 250 mm
Ground clearance (at curb weight + 1 person) (H156)	213 mm	213 mm
Approach angle (at curb weight) (A116-1)	18.8 degr	18.8 degr
Breakover angle (at curb weight) (A117)	17.7 degr	17.7 degr
Departure angle (at curb weight) (A116-2)	19.9 degr	19.9 degr
WADING CAPABILITY		
Wading capability depth at curb weight (at walking speed)	450 mm	450 mm
STEERING		
Steering ratio (angle/angle) - inner wheel - outer wheel	39.8 / 33.0	39.8 / 33.0
Turning circle (Curb to curb)	11.8 m	11.8 m
Turning circle (Wall to wall)	12.2 m	12.2 m
Turns of steering wheel end to end	3.1	3.1
CHASSIS AND BRAKES		
Suspension front	Double Wishbone Suspension, Hydraulic Shock Absorbers, Stabilizer Bar, Dual Chamber Air Suspension	Double Wishbone Suspension, Hydraulic Shock Absorbers, Stabilizer Bar, Dual Chamber Air Suspension
Suspension rear	Integral link Suspension, Hydraulic Shock Absorbers, Stabilizer Bar, Dual Chamber Air Suspension	Integral link Suspension, Hydraulic Shock Absorbers, Stabilizer Bar, Dual Chamber Air Suspension
Steering	Electric Power Assisted Rack and Pinion Steering	Electric Power Assisted Rack and Pinion Steering
Braking system	Antilock Braking System (ABS) with Electronic Brake Distribution (EBD) and Electronic Brake Assistance (EBA)	Antilock Braking System (ABS) with Electronic Brake Distribution (EBD) and Electronic Brake Assistance (EBA)
Brake disc diameter (front) Brake: 20"	400 mm	400 mm
Brake disc diameter (rear) Brake: 20"	390 mm	390 mm
Brake disc thickness (front) Brake: 20"	38 mm	38 mm
Brake disc thickness (rear) Brake: 20"	25 mm	25 mm
Braking distance 100-0 km/h	35 m	35 m
VOLUMES		
Largest Luggage volume - First (V214-1) (Largest volume. Load height limited by the headlining. Front limited by vertical plane tangential to the rear side of the front seatback) Total (including V209)	up to 1945 l / 2019 l / 2107 l	2019 l / 2107 l
Largest Luggage volume - Second (V214-2) (Second seat up. Load height limited by the headlining. Front limited by vertical plane tangential to the rear side of the second seatback) Total (including V209)	up to 992 l / 1017 l / 1029 l	1017 l / 1029 l
Largest Luggage volume - Third (V214-3) (Second seat up. Load height limited by the headlining. Front limited by vertical plane tangential to the rear side of the second seatback) Total (including V209)	- / 377 l / 384 l	377 l / 384 l
Open Luggage Compartment - First (V211-1) (Second seat folded. Load height limited to upper edge of the front seatback or lower edge of the rear window) Total (including V209)	up to 1126 l / 1149 l / 1288 l	1149 l / 1288 l
Open Luggage Compartment - Second (V211-2) (Second seat up. Load height limited to the upper edge of the second seatback or second window) Total (including V209)	up to 647 l / 662 l / 669 l	662 l / 669 l
Open Luggage Compartment - Third (V211-3) (Second seat up. Load height limited to the upper edge of the second seatback or second window) Total (including V209)	up to 324 l / 324 l	324 l / 324 l
Luggage volume. Separate Storage Areas in Luggage Compartment. (V209) (Closed storage areas located around the luggage compartments, behind wheel arches, under the floor, or any other area)	up to 72 l / 72 l / 72 l	72 l / 72 l
Luggage volume. Separate Storage Areas in Luggage Compartment. (V209-L*) (Closed storage areas located around the luggage compartments, behind wheel arches, under the floor, or any other area)	up to n/a l / 100 l / 100 l	100 l / 100 l
Frunk volume (Front luggage volume) (V216) - W/O warning triangle (incl TMK) - With warning triangle (incl TMK)	49 l / 46 l	49 l / 46 l
Frunk volume (Front luggage volume) (V216-L*) - W/O warning triangle (incl TMK) - With warning triangle (incl TMK)	80 l / 80 l	80 l / 80 l
* Liquid volume		
LENGTHS		
Cargo length from the first seatback to the tailgate measured at: - the height of the floor covering (L212-1) - the top of the first seatback (L214-1) (6 seat / 7 seat)	2032 mm / 2051 mm 1909 mm / 1909 mm	2032 mm / 2051 mm 1909 mm / 1909 mm
Cargo length from the second seatback to the tailgate measured at: - the height of the floor covering (L212-2) - the top of the second seatback (L214-2) (6 seat / 7 seat)	1276 mm / 1276 mm 1101 mm / 1090 mm	1276 mm / 1276 mm 1101 mm / 1090 mm
Cargo length from the third seatback to the tailgate measured at: - the height of the floor covering (L212-3) - the top of the second seatback (L214-3)	569 mm / 569 mm 378 mm / 378 mm	569 mm / 569 mm 378 mm / 378 mm
HEIGHTS		
Cargo floor height to ground (curb weight) (H253)	788 mm	788 mm
Rear opening height (car center line) (H202)	779 mm	779 mm
Cargo height (rear wheel center and car center line) (H201)	862 mm	862 mm
WIDTHS		
Cargo floor width (between wheel housings) (W201)	1130 mm	1130 mm
Rear opening width (upper) (W205)	949 mm	949 mm
Rear opening width (Lower) (W207)	1138 mm	1138 mm
WEIGHT/MISCELLANEOUS		
Weight, kg (min-max, depending on setup) (Curb weight)/MRO)	2689 kg / 2682 kg / 2704kg // 2764 kg / 2757 kg / 2779 kg	2682 kg / 2712 kg // 2757 kg / 2787 kg
Total Weight (Depending on type of engine, gearbox etc.)	3190 kg / 3300 kg / 3390 kg	3300 kg / 3390 kg
Max trailer weight, Unbraked (Max)	750 kg	750 kg
Max trailer weight, Braked (Max)	2200 kg	2200 kg
Aerodynamics, (Cd)	0.29	0.29
Aerodynamics, (Frontal area)	2.87 m²	2.87 m²
Aerodynamics, (Cd*A)	0.850	0.850
Max roof load	100 kg	100 kg
* MRO = Mass in Running Order		