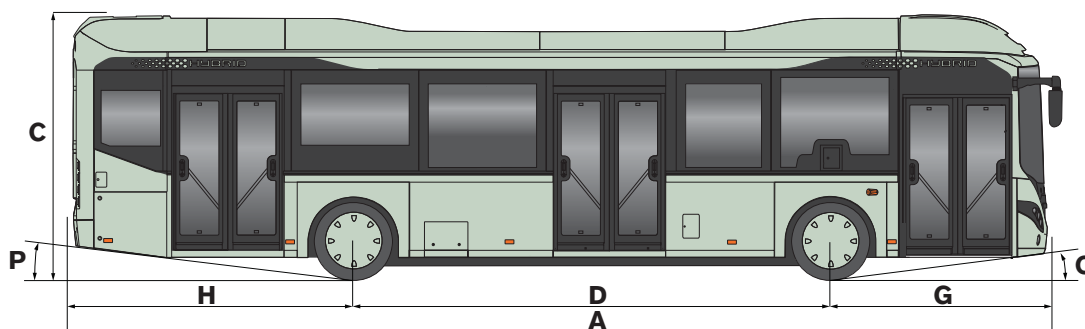




Volvo Buses. Driving quality of life

VOLVO 7900 HYBRID

EU6



Model	4x2, 10.6 m	4x2, 12.0 m	
Overall dimensions			
A	Overall length (mm)	10639	12134
	Overall width (mm)	2550	2550
C	Overall height (mm)	3280	3280
D	Wheelbase (mm)	4450	5945
G	Front overhang (mm)	2704	2704
H	Rear overhang (mm)	3485	3485
O	Approach angle (°)	6.1	6.1
P	Departure angle (°)	6.0	6.0
	Turning radius (outer front corner) (mm)	9015	10910
	Turning radius (outer front wheel) (mm)	7115	8970
	Overall height, approach and departure angles with tyres	275/70 R22.5	275/70 R22.5
Weights			
	Permitted front axle load (kg)	7100	7100
	Permitted drive axle load (kg)	12000	12000
	Permitted GVW (kg)	19000	19000
Engine			
	D5K240	D5K240	
	Emission standard	Euro 6	Euro 6
	Engine system	EGR, Common Rail	EGR, Common Rail
	Displacement (dm ³)	5.1	5.1
	Cylinders/arrangement	4/in-line	4/in-line
	Output (hp)	240	240
	Output ISO 1585 (kW)	177	177
	Torque ISO 1585 (Nm)	918	918
	at engine speed (rpm)	1200-1600	1200-1600
Electrical motor			
	Output, max (kW)	120	120
	Torque ISO 1585, max (Nm)	800	800
	Output, continuous (kW)	30	30
	Torque ISO 1585, continuous (Nm)	400	400
	Max brake torque (Nm)	800	800
	Continuous brake torque (Nm)	400	400
Fuel tanks			
	Diesel (L)	215	215
	AdBlue (L)	30	30
	Adblue tank side (RHS/LHS)	RHS	RHS

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Transmission and axles		
Gearbox	Volvo I-shift AT2412E	Volvo I-shift AT2412E
Front axle	Volvo RFS-L	Volvo RFS-L
Rear Axle	ZF AV132	ZF AV132
Differential lock	No	No
Steering and suspension		
Steering wheel side	LHD	LHD/RHD
Power steering	Electric driven hydraulic steering	Electric driven hydraulic steering
Kneeling	Optional	Optional

Energy storage system

- Lithium-Ion battery
 - Water cooled
 - Ramp heating with 230 V
- Voltage 600 V
Capacity 1.2 kWh

Exhaust system

- One box muffler design
- Diesel Oxidation Catalyst (DOC)
- Diesel Particulate Filter (DPF)
- Selective Catalytic Reduction (SCR)
- Ammonia Slip Catalyst (ASC)
- Automatic regeneration of DPF without driver involvement under normal conditions

Cooling system

- Roof mounted radiator gives lower engine compartment temperature
- Charge air cooler separately installed from radiator gives improved airflow, better control of fan speed and lower fuel consumption
- Electrically driven fans with improved speed control
- Remote filling of coolant
- No coolant filter
- Coolant level warning in instrument cluster
- Higher allowed coolant temperature for better cooling performance and lower fuel consumption

Tyres and rims

Steel rims available
Rims 7.50"x22.5" Tyres 275/70R22.5"

Air and brake system

- Volvo disc brakes
- Electronic braking system (EBS 5)
- Anti-lock Braking System (ABS)
- Acceleration Slip Regulation (ASR)
- Brake blending
- Dual retarder control
- Drag torque control
- Hill start aid
- Brake temperature warning
- Poor brake performance warning
- Door brake
- Brake assistant
- Lining wear sensing and analysis
- Automatic calibration after brake pad change
- Compressed air system can easily be filled from external circuit
- Electric air compressor replace hydraulic air compressor to increase fuel efficiency

Exterior and structure

- Volvos patented lightweight aluminum body concept
- Front and rear wall in composite material and ABS elements
- Front and rear structure in anti-corrosion steel
- Single or double tinted glazing with hopper window options
- Multilayer exterior paint finish
- Easy repair of minor damages
- Parts commonality between city and intercity buses to lower maintenance cost
- Anti-corrosion treatment of underbody with conservation sealing and silencing agents
- Xenon and halogen headlights
- Fog lamps and auxiliary lights as option
- Electrically adjustable and heated external mirrors.

Doors and door system

- Electric door system
- Pneumatic door system
- All doors are inward gliding
- Double glazing in all doors
- Electric sensitive edge for increased passenger safety

Climate system

- Roof heating units
- Pipe convectors and air blowers
- Air blowers at doors
- Defroster with AC
- Driver convector or blower
- Auxiliary diesel heater
- Separate climate zones for driver and passengers

AC unit:
Cooling capacity max (35/40/47%) 28 kW
Heating capacity at Q80 28 kW

Roof heating unit (when not specified with AC):
Heating capacity at Q80 25 kW

Convectors:
Heating capacity at Q100 918 W/m

Defroster:
Heating capacity at Q80 16 kW
Cooling capacity max 5.5 kW
Airflow max at dP 0 880 m³/h
Available with/without AC

Driver AC:
Electrical roof mounted driver AC, connected to defroster.

Auxiliary heater:
Heating capacity 30 kW
Variant for biodiesel available

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Interior

- Spacious and bright
- Comfortable
- Separate passenger and driver climate zones
- Integrated position for passenger information displays
- Interior LED lights
- Low noise level
- Safety designed interior

Passenger seats

Volvo city seats featuring:

- Optimized city bus seat
- Easy maintenance
- Available in wide range of specifications to meet individual customers' demands
- Volvo Service and spare parts handling

Driver's seat and station

- Volvo dashboard
- Dashboard moves with the steering column in height and tilt
- Available in EBSF and VDV version with multistalk for wiper and direction indicator on left side of the steering wheel
- Instrument cluster:
 - speedometer
 - rev counter
 - 6.5" display
 - fuel gauge
 - coolant temperature
 - brakes
 - turbo and oil pressure
 - indicators
 - warning lamps
- Tachograph
- Data logging
- Alcolock
- External temperature meter
- Fuel economy meter
- Radio/phone switches in steering wheel
- Engine controls in engine compartment to enable engine operation from the rear of vehicle
- ISRI Driver's seat

Electrical system

- I-Start:
 - Dual battery system which separates batteries into two circuits.
 - Optimized start batteries to increase engine start capability.
 - Optimized consumer batteries for longer lifetime
 - Automatic shut off of main switch at low voltage level

Number of batteries 2x12 V Start Batteries

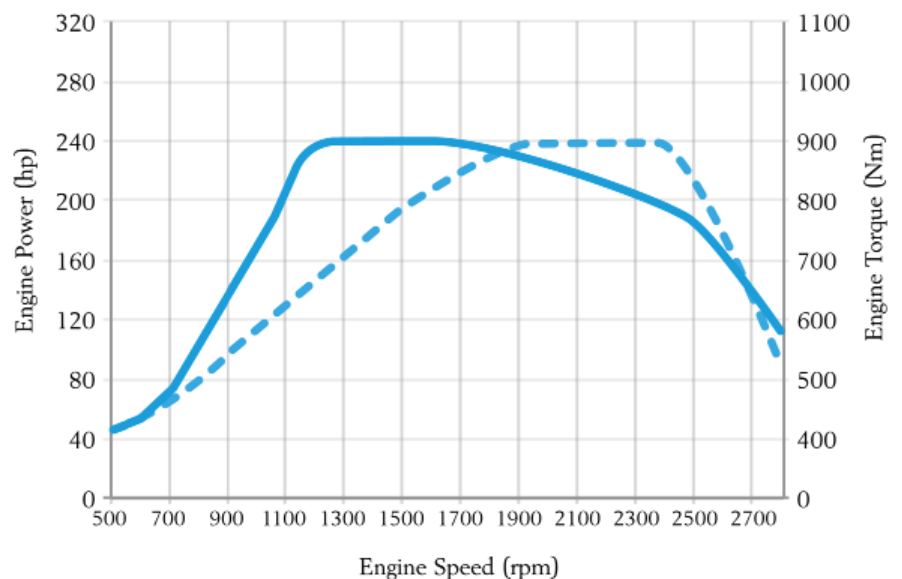
2x12 V Consumer Batteries

Battery capacity, consumer batteries 105 Ah

Audio system

- Stereo radio with CD player
- Preparation kit for radio
- Foot controlled public address system
- City amplifier

Torque and Power curves D5K Eu6



VOLVO

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Göteborg, Sweden

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