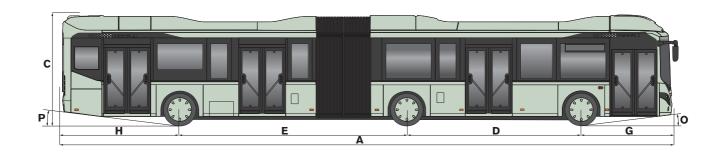


VOLVO 7900 ARTICULATED HYBRID

FU6



Model		Articulated, 18.0 m
Ove	erall dimensions	
Α	Overall length (mm)	18134
	Overall width (mm)	2550
С	Overall height (mm)	3280
D	Front wheelbase (mm)	5190
Е	Rear wheelbase (mm)	6755 (4870+1885)
	Max horizontal/vertical turning angle of articulated joint (°)	52/10
G	Front overhang (mm)	2704
Н	Rear overhang (mm)	3485
0	Approach angle (°)	6.1
Р	Departure angle (°)	6.0
	Turning radius (outer front corner) (mm)	11750
	Turning radius (outer front wheel) (mm)	10140
	Overall height, approach and departure angles with tyres	275/70 R22.5
We	ights	
Permitted front axle load (kg)		7100
	mitted drive axle load (kg)	12500
Permitted middle axle load (kg)		10000
Permitted GVW (kg)		29000
End	gine	D5K240
	ission standard	Euro 6
Engine system		EGR, Common Rail
Displacement (dm³)		5.1
	inders/arrangement	4/in-line
_	tput (hp)	240
Ou	tput ISO 1585 (kW)	177
Torque ISO 1585 (Nm)		918
	engine speed (rpm)	1200-1600
at e	engine speed (rpm)	1200-1600
at e		1200-1600
Ele Out	ectrical motor	
Ele Out	tput, max (kW)	150
Ele Out	tput, max (kW) que ISO 1585, max (Nm)	150 1200
Ele Our Toro	tput, max (kW) que ISO 1585, max (Nm] tput, continuous (kW)	150 1200 70

VOLVO 7900 ARTICULATED HYBRID

Model	Articulated, 18.0 m		
Fuel tanks			
Diesel (L)	380		
AdBlue (L)	30		
Adblue tank side (RHS/LHS)	RHS		

Transmission and axles	
Gearbox	Volvo I-shift AT2412E
Front axle	Volvo RFS-L
Rear Axle	ZF AV132
Differential lock	No

Steering and suspension	
Steering wheel side	LHD
Power steering	Electric driven hydraulic steering
Kneeling	Optional

Energy storage system

- · Lithium-Ion battery
- Water cooled
- Ramp heating with 230 V

600 V Voltage Capacity 2.4 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 Tyres 7.50"x22.5" 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
- 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%) 38 kW Heating capacity at Q80 56 kW

Roof heating unit (included if AC unit specified with heat):

Heating capacity at Q80 25 kW

Convectors:

Heating capacity at Q100 918 W/m

Defroster:

16 kW Heating capacity at Q80 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:

30 kW Heating capacity

Variant for biodiesel available

VOLVO 7900 ARTICULATED HYBRID

EU6

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

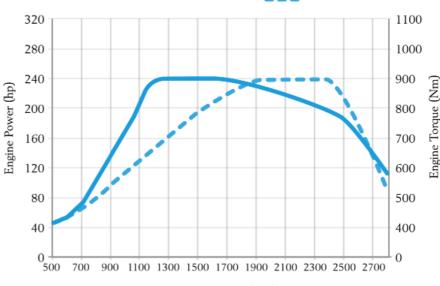
- I-Start:
- Dual battery system which separates batteries into two circuits.
- Optimized start batteries to increase engine start capability.
- Optimized consumer batteries for longer lifetime
- Automatic shut off of main switch at low voltage level

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



Engine Speed (rpm)



Volvo Bus Corporation

Göteborg, Sweden www.volvobuses.com