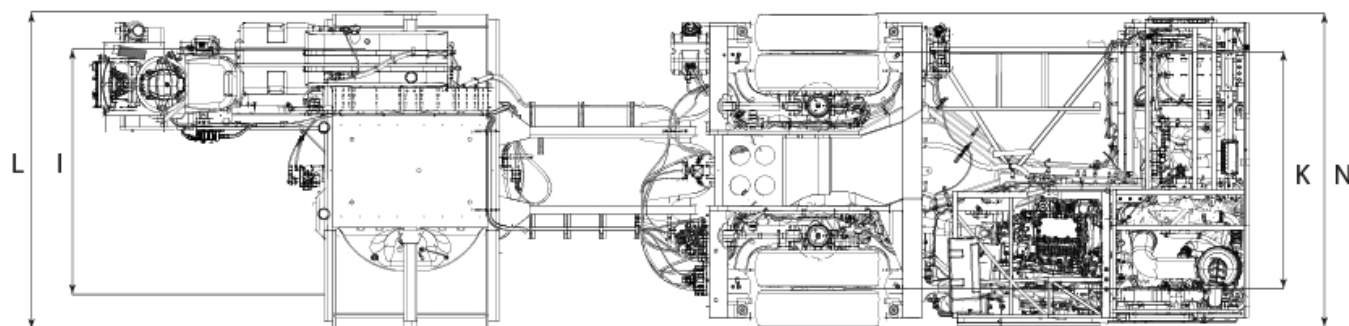
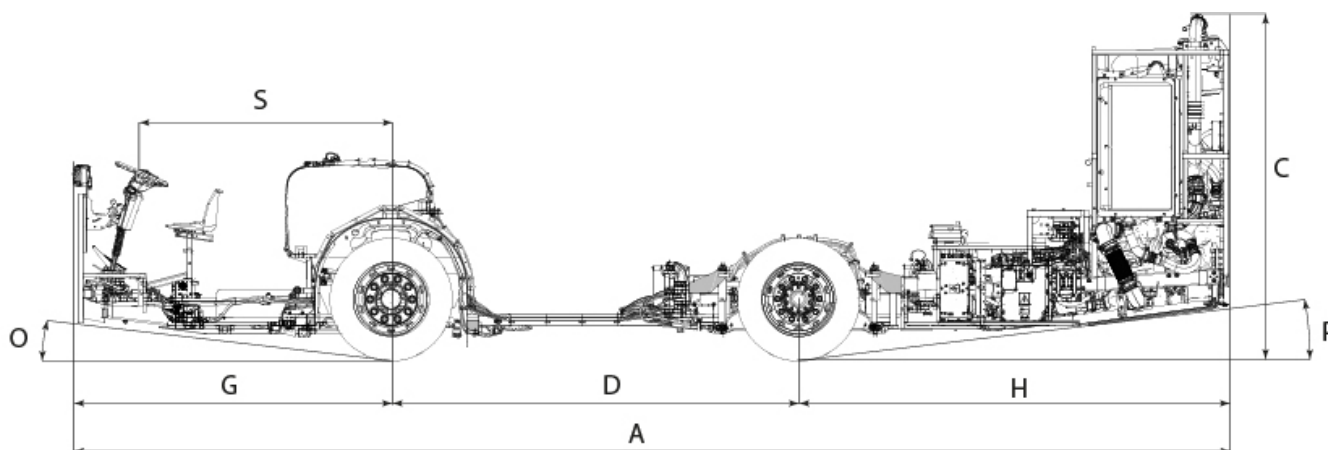




Volvo Buses. Driving quality of life

VOLVO B5L S-CHARGE

Euro 6



Model		B5L S-Charge
Overall dimensions		
A	Overall chassis length, depending on body, up to (mm)	12500
C	Frame height at rear structure (mm)*	2268
D	Transport wheelbase (mm)	3250
G	Front overhang (mm)	2498
H	Rear overhang (mm)	3430
S	Steering wheel position (mm)	1980
I	Track, front (mm)*	2107
K	Track, rear (mm)*	1885
L	Overall width front wheels or housing (mm)*	2500
N	Overall width rear wheels (mm)*	2500
O	Approach angle (°)	7
P	Departure angle (°)	7
*) Track width, overall width and frame height are measured with tyres: and steel rims		275/70 R22.5 steel disc rim 7.5" x 22.5"

VOLVO B5L S-CHARGE

Euro 6

Model	B5L S-Charge
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Weights	
Permitted front axle load (kg)	7500
Permitted drive axle load (kg)	12000
Permitted GVW (kg)	19500

Engine	D5K240
Emission standard	Euro 6
Engine system	EGR, Common Rail
Displacement (dm ³)	5.1
Cylinders/arrangement	4/in-line
Output (hp)	240
Output ISO 1585 (kW)	180
Torque ISO 1585 (Nm)	918
at engine speed (rpm)	1200–1600

Electrical motor	
Output, max (kW)	110
Torque ISO 1585, max (Nm)	800
Output, continuous (kW)	30
Torque ISO 1585, continuous (Nm)	400
Max brake torque (Nm)	550
Continuous brake torque (Nm)	400

Fuel tanks	
Diesel (L)	220 (RHD), 250 (LHD)
AdBlue (L)	30
AdBlue tank side (RHS/LHS)	RHS

Transmission and axles	
Gearbox	Volvo I-Shift AT2412F
Front axle	Volvo RFS-L
Rear axle	ZF AV 133
Differential lock	No

Suspension and steering	
Air bellows, front	2
Air bellows, rear	4
Kneeling	Optional
Max wheel angle	53°
Power steering	Electric driven - hydraulic steering
Steering wheel side	RHD/LHD

VOLVO B5L S-CHARGE

Euro 6

Important information

For variants concerning wheelbase, steering wheel diameter and permitted front axle load, see Type approval according to ECE R79 and ECE R13.

Energy storage system

- Lithium-ion battery
- Water cooled

Voltage

600 V

Capacity

ESS Total Energy 9 kWh (BOL)

Exhaust system

- One box muffler design
- Diesel Oxidation Catalyst (DOC)
- Diesel Particulate Filter (DPF)
- Selective Catalytic Reduction (SCR)
- Ammonia Slip Catalyst (ASC)
- Two types of regeneration:
 - Automatic regeneration of soot and sulphur during normal driving
 - Parked regeneration of soot and sulphur is triggered by the information cluster or Tech Tool
- On Board Diagnostic (OBD) for emissions, according to step C of emission regulations
- Engine certified for usage with biodiesel (standard EN 14214) and hydrotreated vegetable oil (HVO, standard EN 15940)

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
- ESS Active Cooler (hot markets)
- ESS Passive Cooler (standard)

Tyres and rims

Steel rims available

Rims

7.5 x 22.5"

Tyres

275/70 R22.5

Driver's station

Different dashboard configurations are available.

- Instrument cluster:
 - speedometer
 - rev counter
 - 6.5" display
 - fuel gauge
 - coolant temperature
 - brakes
 - turbo and oil pressure
 - indicators
 - warning lamps
- Tachograph
- Data logging
- Volvo Alcolock (option)
- External temperature meter
- Fuel economy meter
- Engine controls in engine compartment to enable engine operation from the rear of the vehicle
- I-Coaching

Air and brake system

- Volvo disc brakes
- Electronic Stability Control (ESC)
- 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, easily filled from external circuit
- Electric air compressor to increase fuel efficiency

Electrical system

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

Number of batteries

2 x 12 V consumer batteries

2 x 12 V start batteries

Battery capacity

Consumer batteries

2 x 170 Ah

2 x 225 Ah (option)

Start batteries

2 x 35 Ah

VOLVO

Volvo Bus Corporation

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