



Technical specification: NesoBus 12



Technical information

Dimensions and basic information:

Length	12 000 mm
Width	2 550 mm
Height	3 400 mm
Total Weight	19 500 kg

Drive system

Fuel cell:

Producer	Ballard
Model	FCmove-HD
Max. net power	70 kW
Working temperature	-30 ÷ +50°C

Electric motors:

Producer	ZF
Type	asynchronous portal axle
Max. net power	2 x 125 kW
Control	inverter ZF

Options: central engine

Hydrogen tanks:

Producer	Hexagon
Type	IV (composite)
Number of tanks	5 pieces x 312 l
Working pressure	350 bar
System capacity	37.5 kg
Communication standard	IRDA

Options: tanks 700 bar

Traction batteries:

Type	LTO
Energy	2 x 15.2 kWh
Charging system	plug-in

Chassis

Front axle:	
Producer	ZF
Model	RL 82 EC independent
Drive axle:	
Producer	ZF
Model	AVE 130 AxTrax
Suspension:	
Type	pneumatic ECAS
Lubrication system:	
Type	central 10-point
Steering system:	
Type	electro-hydraulic
Supply voltage	24V
Brakes:	
Type	EBS 3.3 system
Functions	ABS, ASR, ESC, Brake: hand and parking brake, hill holder
Wheels:	
Rims	22.5"x7.5" size
Tires	275/70 R22.5 size

Bodywork

Body structure:

Steel stainless steel 1.4003

Exterior:

Composite side shell quickly disassembled
 Side windows jointless
 Windshield panoramic or divided vertically
 Door system 2-2-2 or other options

Interior

Passenger capacity (depending on the selected option):

Number of passengers up to 93
 Number of passenger seats up to 37
 Number of seats from the low floor up to 14

Wheelchair ramp:

Location middle door
 Type mechanical

Passenger seats:

Type made of plastic with soft upholstery

Floor:

Covering anti-skid, easily washable

Handrails:

Material stainless steel
 Surface finishing brushed or painted

Luggage space:

Dedicated luggage space 2

Air-conditioning and heating:

Type electric with heat pump
 Cooling Power to 36 kW
 Heating Power to 47 kW

Driver's cabin

Type of building:

Type	closed
Entry	from the passenger space or from outside through the I door leaf

Driver's workplace:

Driver's console	adjustable, display 7"
Driver's seat	available in many options equipment

Cabin air-conditioning:

Control	individual
---------	------------

Equipment

Multimedia:

- Internet 5G
- Wi-Fi network for passengers
- 5 indoor displays
- 6 external side displays plus front and rear
- Weather information, information from the country and the world, information about the tourist attractions of the city, additional advertisements, itinerary on the city map.

Passenger information system

Vehicle monitoring

Sound system

360 degree external monitoring

Alco-lock

System CPC – tires pressure and temperature monitoring system

Fire detection system

Hydrogen system crash sensor

Dusk and rain sensor

LED cornering light with dynamic rear indicator

3 double USB ports with induction charging