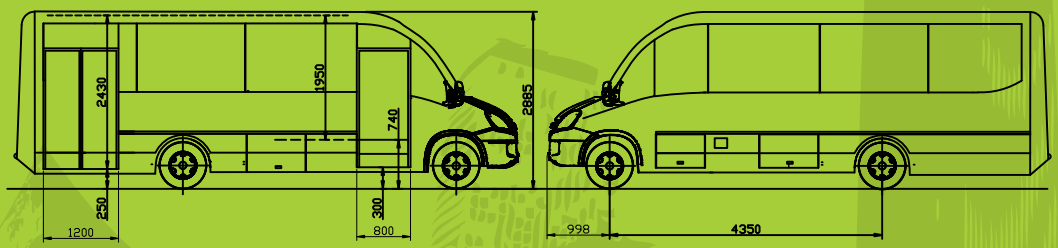
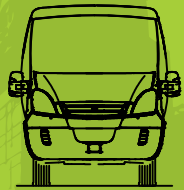
ELEKTRO MIDIBUS

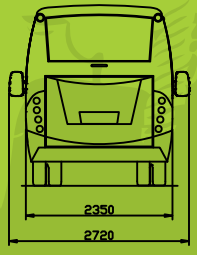
EVC FIRST BLF ELECTRIC

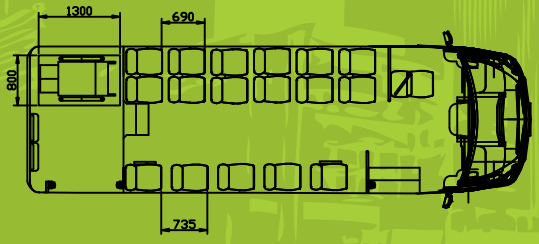
The maximum speed of 100 km / h
The maximum traction motor power 150 kW
Range per one charge 170 or 212 km
Low-floor design of the rear part

Basic dimensions of the vehicle









ELECTRO MIDIBUS EVC FIRST ELECTRIC

This is a vehicle designed for public transport of standing and seated passengers and transport of people with reduced mobility in wheelchairs for short distances with frequent exchange of passengers. The body of the Midibus is built by the Slovak company Rošero on a mass-produced Iveco Daily chassis. According to requirements all vehicles with Iveco Daily chassis can be equipped with an electric drive.

ROŠERO - P s.r.o.

Company Rošero is an important manufacturer of minibuses and midi-buses. Their vehicles have European homologation, which is a guarantee of quality and safety. Its production capacity and market size make it one of major European manufacturers. The concept of our bus with an electric drive is based on the effort to preserve the greatest possible number of serial parts. That´s why our vehicles are extremely reliable and easy to service. In the design process of the vehicle drive system, newly installed functional units were optimally positioned . These include electric motor, traction and auxiliary inverter, charging system including charging socket on the vehicle, battery boxes, heating and the like.

VEHICLE PARAMETERS

Length:	8 040 mm
Width:	2 350 mm
Height:	2 885 mm
Wheelbase:	4 350 mm
Total maximum allowed weight	7 200 kg

Approach and departure angles - front 25%, rear 8%
Vehicle consumption 0,5 - 0,6 kWh/km

CAPACITY

- 31 places for passangers in Total
- 20/2 for seated passengers - two reclining seats
- 9 places for standing passengers
- 1 wheelchair

ELECTRIC DRIVE

To drive a vehicle liquid-cooled traction synchronous electric motor is selected. This progressive design solution ensures minimal failure and requires no maintenance. The synchronous motor has a very low weight and high efficiency, liquid cooling ensures good heat dissipation in the summer. The engine is also controlled by a liquid-cooled traction inverter. The motor speed is reduced by a single-stage gearbox, which is connected directly to the cardan shaft to the differential on the rear axle.

Nominal output power 75 kW
Peak output power 150 kW

TRANSMISSION

Type - single-stage reduction

SUSPENSION

- Front axle - independent wheel suspension
- Rear axle - simple with dual wheels, maintenance-free air suspension
- The stabilizer of front and rear axles

BRAKE SYSTEM

- The hydraulically operated brakes with vacuum booster, vacuum source is an electric pump
- ABS, ESP
- Regenerative braking by traction electric motor

DOORS

- Number of doors – 2
- Door width: front 800 mm, rear 1200 mm
  Electrically operated single leaf operating doors
  Electrically operated rear double doors for passengers

INTERIOR

- Handles for standing passengers
- Plastic seat for passengers with non-adjustable backrest, upholstery with fabric color of your choice
- The driver's seat without a belt, suspended and adjustable, with high backrest, folding armrest, adjustable lumbar support and sliding seat
- Floor with grey floor covering
- Hammers for emergency glass breaking secured by seals against theft
- Depending on individual requirements information system can be installed into the vehicle

TRACTION BATTERY SYSTEM

- The vehicle comes in two range variants. With range 170 or 212 km and the total energy of traction batteries 88 or 110 kWh
- Charging takes place via the charging cable with terminals TYPE2. The charging time from 0 to 100% of capacity
  3-phase 400V:

battery 88 kWh	16A(8 kW) 12h	32A(16 kW) 6h
battery 110 kWh	16A(8 kW) 14h	32A(16 kW) 7h

- Batteries are equipped with preheating for operation at low temperatures
- Turning on all electrical appliances, including air conditioning for the driver, affects the range up to maximum 23%

HOMOLOGATION

The car is certified by TUV-SUD and approved for the operation by the Czech Ministry of Transport.

WARRANTY

EVC Group provides a two-year warranty for vehicles, including batteries

EVC

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PRODUCER OF ELECTRIC CARS