



## BOZANKAYA E bus 25



**25 m**  
Length



**max. 600 kWh**  
Battery Capacity



**up to 400km**  
Electrical Range



**max. 230**  
Passengers



**80 km/h**  
Top Speed



**100%**  
Electric

E-MOBILITY IS OUR DRIVE.

## BOZANKAYA VEHICLE CHARACTERISTICS

### Energy Storage

SCL = Single Cell Loading

#### SCL Battery System with active cell balancing

- Control and exchangeability of individual cells
- Cell type: Lithium iron phosphate (LiFePO<sub>4</sub>) / Lithium titanat (LTO)
- Capacity: 520 / 600 kWh



### Electrical Systems

#### Low- and high-voltage system, electrically isolated

- 24 V board net: supply of all ancillary components
- High-voltage system: electrical supply of the power train
- Wear-free low-voltage components in the inspection area

### Safety

#### Extensive safety concept comprising battery and power train

- Energy storage and power electronics on the vehicle roof
- Intrinsic safety of LTO-LiFePO<sub>4</sub> cells and single cell monitoring
- Easily accessible low-voltage inspection area

### Efficiency

#### Specific energy consumption: 1.5–1.9 kWh/km

- Highest levels of efficiency in the power train (up to 98%)
- Highest energy recovery rates by effective recuperation
- Minimal energy losses due to active cell balancing

### Range

Up to 400 km with a single charge while meeting the highest safety standards

## BOZANKAYA CHARGING TECHNOLOGY

Bozankaya plug-in charging technology enables the gentle low-loss overnight charging of the traction batteries.

### Individual Vehicles

#### Standard Charging Technology (SL)

- Mobile devices for the charging of a single vehicle
- Constant charging power
- Charging power: 90 / 150 kW
- Input voltage: 400 VAC

#### Opportunity Charging

### Fleet Management

#### Dynamic Charge Matrix (DCM)

- Stationary charging system for the simultaneous charging of 10 vehicles
- Variable charging power
- Charging power: 400 kW
- Input voltage: 400 VAC

#### Opportunity Charging

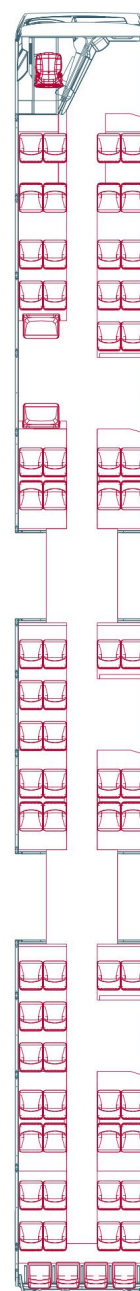
Charge time: 4–7 hours

(depending on battery capacity and charging power)

## DATA COMMUNICATION

#### Comprehensive concept of remote monitoring and diagnosis

- Continuous monitoring of a wide range of operating data
- Online identification of failures and maintenance requirements
- Analysis of the available database for customized product care
- Development of customer-specific software solutions for an optimal integration of the Bozankaya vehicle system into the depot



## TECHNICAL DATA

### Vehicle Properties

Top speed	80 km/h
Brake system	WABCO EBS3, regenerative braking
Doors	4-5 double folding doors, electric
Passenger capacity	40-70 seated + 130-160 standing

### Dimensions and Weight

Vehicle length	24 500 mm
Vehicle width	2 550 mm
Vehicle height	3 400 mm
Maximum permissible weight	40 000 kg

### Axles and Wheels

Front axle (1st axle)	ZF RL 82 EC (independent wheel suspension)
Driven axles (2nd and 3rd axle)	ZF AVE 130 (electric portal axle, max. 4 x 125 kW) / 2nd or 3rd axle Central Motor
Rear axle (4th axle)	ZF AVN 132 (non-driven)
Tyre size	275/70 R22.5

### Heating and Air Conditioning (HVAC)

HVAC system	Heat pump (electric heating and cooling)
Temperature range	-15°C to +45°C
Auxiliary heater	Optional (fossil or electric)



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