



## BOZANKAYA E bus 12



**12 m**  
Length



**max. 250 kWh**  
Battery Capacity



**up to 300 km**  
Electrical Range



**max. 90**  
Passengers



**80 km/h**  
Top Speed



**100%**  
Electric


E-MOBILITY IS OUR DRIVE.

## BOZANKAYA VEHICLE CHARACTERISTICS

<b>Energy Storage</b>	SCL = Single Cell Loading
<b>SCL Battery System with active cell balancing</b>	
<ul style="list-style-type: none"> <li>Control and exchangeability of individual cells</li> <li>Cell type: Lithium iron phosphate (LiFePO<sub>4</sub>) / Lithium titanat (LTO)</li> <li>Capacity: 250 kWh</li> </ul>	
<b>Electrical Systems</b>	
<b>Low- and high-voltage system, electrically isolated</b>	
<ul style="list-style-type: none"> <li>24 V board net: supply of all ancillary components</li> <li>High-voltage system: electrical supply of the power train</li> <li>Wear-free low-voltage components in the inspection area</li> </ul>	
<b>Safety</b>	
<b>Extensive safety concept comprising battery and power train</b>	
<ul style="list-style-type: none"> <li>Energy storage and power electronics on the vehicle roof</li> <li>Intrinsic safety of LiFePO<sub>4</sub>-LTO cells and single cell monitoring</li> <li>Easily accessible low-voltage inspection area</li> </ul>	
<b>Efficiency</b>	
<b>Specific energy consumption: 0.7 – 0.9 kWh/km</b>	
<ul style="list-style-type: none"> <li>Highest levels of efficiency in the power train (up to 98%)</li> <li>Highest energy recovery rates by effective recuperation</li> <li>Minimal energy losses due to active cell balancing</li> </ul>	
<b>Range</b>	
<b>Up to 340 km</b> with a single charge while meeting the highest safety standards	

## BOZANKAYA CHARGING TECHNOLOGY

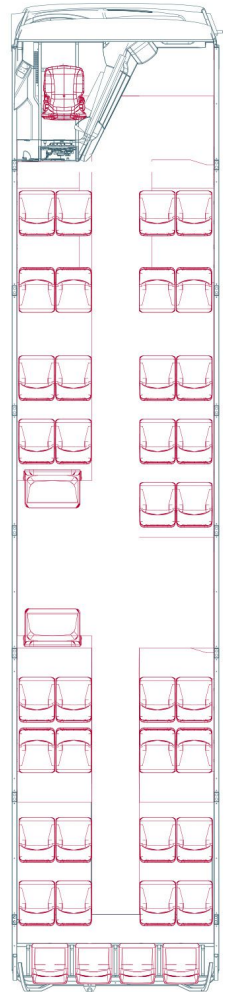
Bozankaya plug-in charging technology enables the gentle low-loss overnight charging of the traction batteries.

<b>Individual Vehicles</b>	<b>Fleet Management</b>
<b>Standard Charging Technology (SL)</b>	<b>Dynamic Charge Matrix (DCM)</b>
<ul style="list-style-type: none"> <li>Mobile devices for the charging of a single vehicle</li> <li>Constant charging power</li> <li>Charging power: 60 / 150 kW</li> <li>Input voltage: 400 VAC</li> </ul>	<ul style="list-style-type: none"> <li>Stationary charging system for the simultaneous charging of 10 vehicles</li> <li>Variable charging power</li> <li>Charging power: 400 kW</li> <li>Input voltage: 400 VAC</li> </ul>
<b>Opportunity Charging</b>	<b>Opportunity Charging</b> 

**Charge time: 3-6 hours**  
(depending on battery capacity and charging power)

## DATA COMMUNICATION

<b>Comprehensive concept of remote monitoring and diagnosis</b>
<ul style="list-style-type: none"> <li>Continuous monitoring of a wide range of operating data</li> <li>Online identification of failures and maintenance requirements</li> <li>Analysis of the available database for customized product care</li> <li>Development of customer-specific software solutions for an optimal integration of the Bozankaya vehicle system into the depot</li> </ul>



## TECHNICAL DATA

<b>Vehicle Properties</b>	
Top speed	80 km/h
Brake system	WABCO EBS3, regenerative braking
Doors	2-3 double folding doors, electric
Passenger capacity	38 seated + 52 standing
<b>Dimensions and Weight</b>	
Vehicle length	12-12.5 m
Vehicle width	2 550 mm
Vehicle height	3 400mm
Maximum permissible weight	19 000 kg
<b>Axles and Wheels</b>	
Front axle (1st axle)	ZF RL 82 EC (independent wheel suspension)
Driven axle (rear axle)	ZF AVE 130 (electric portal axle, max. 2 x 125 kW)/AV 132 Central Motor(150-250kW)
Tyre size	275/70 R22.5
<b>Heating and Air Conditioning (HVAC)</b>	
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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