



e-Train

electric on-road train for touristic applications





VIDEO-LINK

COMPONENTS & SYSTEMS

The chosen **battery technology** and the related possibilities or restrictions are among the most crucial factors when it comes to determinants like sustainability, energy efficiency and total cost of ownership (TCO). The option to fast-charge the batteries enables a shift in focus from autonomy per full charge to an optimized charging interval, which results in the possibility to operate the vehicle all day long without an excessive amount of heavy and costly battery packs.

The available LTO (Lithium Titanate Oxide) as well as the MpCO (Lithium, nickel, manganese) technology enable:

- > fast-charging of the entire battery pack within 12 to 20 minutes (3C - 5C)
- > the long-term use of batteries without relevant efficiency losses (8.000 to 15.000+ full cycles)
- > operation and charging at a wide temperature range (-30° bis +55° C in case of LTO)
- > the actual use of the nominal battery capacity (up to 98% DoD, depth of discharge)
- > the safe operation of the vehicle, as especially the LTO cells are hardly inflammable



MPCO OR LTO BATTERY PACK



MODULAR & LIGHT WEIGHT BODY DESIGN

A **light and modular body**, the use of high quality materials and a purpose-developed electric drive train result in a vehicle category of its own in terms of overall efficiency and customer perception.

A lot of light on the inside of the vehicle, a see-through glass roof or a semi-transparent photovoltaic glass roof and the availability of various seating and interior configuration options, turn the eShuttle into a highly versatile passenger transport solution.

HIGHLIGHTS

e-Train

Europe's most advanced, fully electric & solar-power supported on-road train with an autonomous range of up to 135 km per charge at a permissible speed of 25 km/h.

The chosen battery technology offers a high cycle-life and allows for fast-charging while every hour of sunshine results in several kilometers of additional range. The eTrain is on-road homologated, all-terrain capable with up to 25 % gradeability.





FIRST CLASS INTERIOR



FAST CHARGING SOLUTIONS



LI-ION BATTERY PACKS

SPECIFICATIONS

LOCOMOTIVE

2x 15 kW electric motors with a 1:22 gearbox transmission ratio // Li-Ion battery packs of either 66 or 88 kW/h // Autonomous range of up to 135 km per charge at 75% load on flat terrain // Gradeability of up to 25 % // Power steering on front axle & electronic differential (torque vectoring) on rear wheels // Independent drive axles with recuperation brakes

WAGONS

Seat capacity of up to 34 passengers per wagon // Various seat and door configurations // All-wheel steering for minimum turning circle // Configurable interior design // Manually operated wheelchair ramp

GENERAL

High-alloy steel chassis and a GRP lightweight body // Torsion-spring suspension on all axles // Pneumatic service brakes and electrically actuated parking brakes // Manual or electric doors // Safety glass windows and solar panels on the roof // Heating and AC system

DIMENSIONS	LOCOMOTIVE	WAGON 1	WAGON 2	WAGON 3	MAXIMUM
LENGTH [M]	2.85	3.90	5.40	6.90	22.5
WIDTH [M]	1.80	1.80 OR 2.30	1.80 OR 2.30	1.80 OR 2.30	
HEIGHT [M]	2.80	2.80	2.80	2.80	
NO. OF SEATS	1 DRIVER	10 -14 +1	16 - 22 +1	22 -34 +1	68 +1

The given specification contains standard and optional features. Specification, design and dimensions are subject to change without prior notice.







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