

IMC[®] E-Buses for Pescara

PESCARA RELIES ON ELECTRIC BUSES
EQUIPPED WITH KIEPE TECHNOLOGY



Your advantages

The public transit agency TUA Pescara has taken delivery of six new trolley buses, equipped with the patented IMC® technology, from KIEPE .

These IMC® e-buses operate on an 8 km route with entirely new infrastructure, connecting the two coastal cities of Pescara and Montesilvano.

IMC® e-buses recharge their batteries during travel using electricity from overhead lines and switch to battery mode in areas without overhead lines. This enables extremely flexible route planning.

Thanks to IMC® technology, destinations without overhead lines can also be reached. Plans include extending the route without overhead lines to the courthouse in Pescara. The electric systems are exclusively supplied by KIEPE. Each system includes traction inverters, motors, high-performance 45- kWh lithi-

um-titanate-oxide traction batteries, the KIEPE current collector and auxiliary power systems. During travel, the system charges the batteries from the overhead lines to the modular traction battery, thus enabling an off-wire range of 24 kilometres in battery mode. This eliminates the need for lengthy charging stops at the terminus. IMC® e-buses are capable of continuous – potentially 24/7 – operation, effectively achieving „unlimited range.“

Advantages of IMC® technology:

- Emission-free public transit
- Long lifespan for trolley buses
- An off-wire range up to 24 km in battery mode
- Continuous 24/7 operation possible
- Flexible route planning

Mechanical Data

Model/Type	Exqui.City 18 T with KIEPE IMC500 technology
Vehicle dimensions	18.81m length x 2.55m width x 3.55m height
Passenger capacity	100 passenger + 34 passengers seated (Total: 135 passengers)
Drive Motors	2 x 160 kW asynchronous motors on the 2nd and 3rd axle
Motor control	patented KIEPE traction control with high energy efficiency and performance
Energy storage	Lithium Titanate Oxide (LTO) with over 45 kWh installed and 37 kWh usable energy
Battery Charging Concept	IMC® (In-Motion-Charging)
Vehicle Energy Consumption	Up to 500 kW during operation (IMC® 500)
Pantograph system	Automatic and re-wiring
DC 24 V Onboard power supply	12.4 kW @28.4V

Technical Drawing

