



FLIRT AKKU 2-CAR UNIT

DB Regio, Germany

The FLIRT Akku is the battery-operated version of the FLIRT series.

In late 2021, the association ZÖPNV Süd commissioned Deutsche Bahn with the acquisition of 44 two-car FLIRT Akku units. The battery-operated trains will cover the routes of the Palatinate network starting in December 2025. Designed for non-electrified and partially electrified sections, the FLIRT Akku is particularly versatile. The batteries can be charged both while the train is travelling with a connection to an overhead contact line, as well as at electrified terminal stations. The braking energy is also fed back into the batteries. This allows the train to be used in a manner that is both efficient and saves energy. The train, which is equipped with lithium-ion batteries, will operate on the Palatinate network and consist of two cars with extra-long car bodies. The fully air-conditioned Deutsche Bahn FLIRT Akku offers bright passenger compartments with a passenger WLAN system, as well as generously proportioned multipurpose areas. There is space for a total of 325 passengers, including 172 seated passengers.

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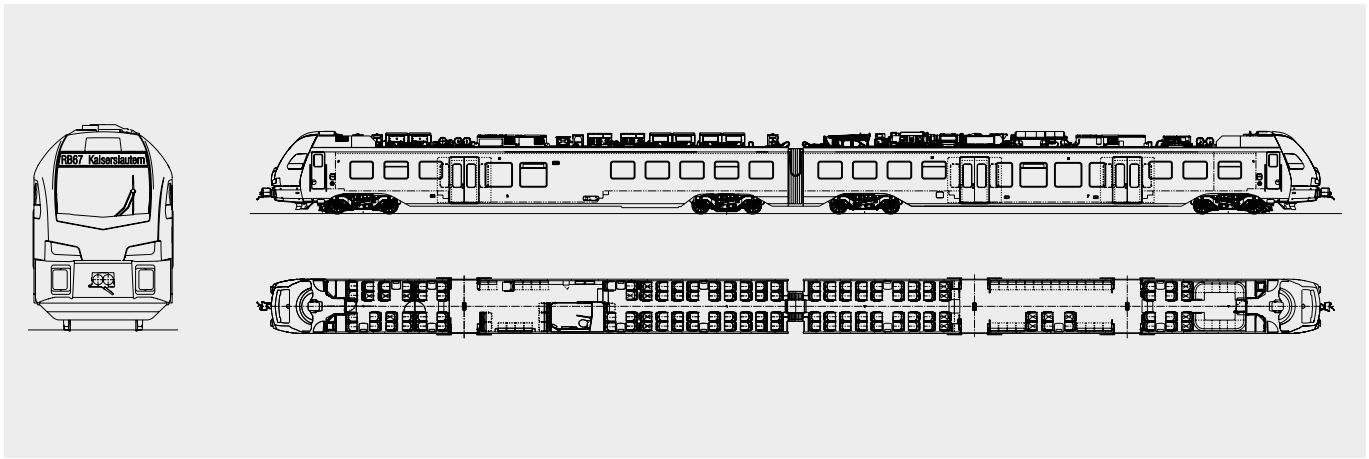
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Technical features

Technology

- Automatic central buffer coupler
- Lightweight aluminium construction
- Smooth running thanks to air-suspended running gear
- Overhead line with 15 kV as well as overhead line-free operation with lithium-ion traction battery
- Fast charging of the lithium-ion traction battery via 15 kV overhead line

Comfort

- Bright, pleasant passenger compartment
- Air-conditioned passenger compartment and driver's cab
- Generously proportioned multifunctional zone at all entrance areas
- 3 passenger doors on each side
- Sliding steps at all doors
- Bicycle parking spaces/wheelchair areas
- State-of-the-art passenger information system
- Universal WC in accordance with TSI PRM
- WLAN

Personnel

- Ergonomically designed driver's cab

Reliability / Availability / Maintainability / Safety

- Complies with crash standard EN 15227
- Complies with the requirements of TSI PRM and TSI Noise

Vehicle data

Designation	FLIRT Akku BEMU 2-4/8
Customer	DB Regio
Region	Saarbrücken – Pirmasens – Karlsruhe, Pirmasens – Kaiserslautern – Lauterecken Grumbach, Karlsruhe – Neustadt (Weinstr.) – Kaiserslautern – Kusel, Winden – Bad Bergzabern
Track gauge	1,435 mm
Supply voltage	15 kV/16.7 Hz
Axle arrangement	Bo´Bo´2´2´
Number of vehicles	44
Seats	172
Standing capacity (4 pers./m²)	153
Floor height	Low-floor area 600 mm High-floor area 1,145 mm
Door width	1,300 mm
Access height	600 mm
Passage height	2,100 mm
Length over coupler	55,500 mm
Vehicle width	2,820 mm
Vehicle height	4,275 mm
Bogie wheelbase	2,700 mm
Driving wheel diameter	870 mm (new)
Carrying wheel diameter	870 mm (new)
Maximum speed	140 km/h
Drive	4 x 330 kW