



SERIES 115 EMU

Ferrocarrils de la Generalitat de Catalunya, Spain

In 2018, Ferrocarrils de la Generalitat de Catalunya (FGC) acquired 15 electric multiple units from Stadler to operate on the Barcelona-Vallés railway line. With the new series 115 EMUs, FGC intends to increase the frequency of the trains in this route to accommodate the rise in passengers expected as a result of the network extensions in Terrasa and Sabadell.

The four-car units have two bogies per car. They will run on the standard FGC gauge lines (1,435mm), both in tunnels and on the surface, at a maximum speed of 90 km / h. The bi-directional trains have three double doors per car on each side, allowing passengers to get on and off quickly at stations. With an overall length of 80m, the trains have 196 seats, multifunctional spaces for bikes and pushchairs, and two areas for wheelchairs-users. All seats have a USB connection for charging mobile devices. Trains can carry a maximum of 774 passengers.

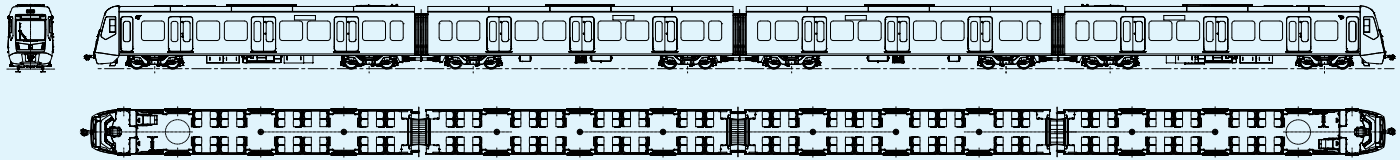
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Technical Features

Technology

- Symmetric train architecture offering improved redundancy of main systems
- High strength lightweight aluminum structure
- Optimized management of auxiliaries using SiC technology

Comfort

- Wide access doors facilitating the fast flow of passengers
- Wide automatic cabin access doors
- Very bright compartments with LED lighting
- Exterior lighting and indicators with RGB matrix
- Wide aisles to improve internal mobility
- Modern PIS with two video systems: for itinerary and other
- Extra long TFTs in a centered position for greater visibility
- Multipurpose areas and reserved areas for PMR
- USB charging sockets in each seat

Personnel

- Ergonomically designed driver's cabs with high visibility
- Rearview cameras on all cars

Reliability / Availability / Maintainability / Safety

- ATC system compatible with FGC signalling
- Additional ventilation system to guarantee the adequate level of air renewal in case of breakdown

Vehicle data

Customer	FGC
Area serviced	Barcelona - Vallés railway line (Spain)
Number of vehicles	15
Commissioning	2021
Track gauge	1,435 mm
Supply voltage	1,500 V CC
Axle arrangement	Bo'Bo'+2'2'+2'2'+Bo'Bo'
Vehicle length	80,780 mm
Vehicle height	3,977 mm
Entrance height	1,060 mm
Seats	196
Max.capacity (6 pers. / m²)	774
Number of doors	24
Door width	1,300 mm
Wheel diameter (new)	840
Minimum curve radio	50 m
Power	2.19 MW
Maximum speed	90 km/h