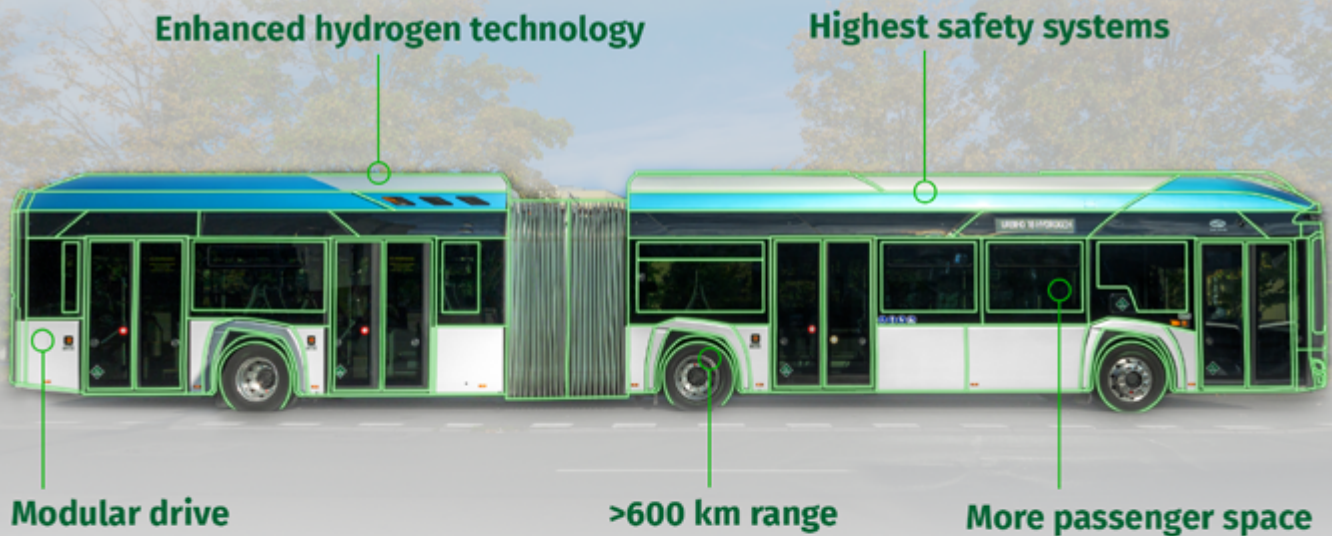


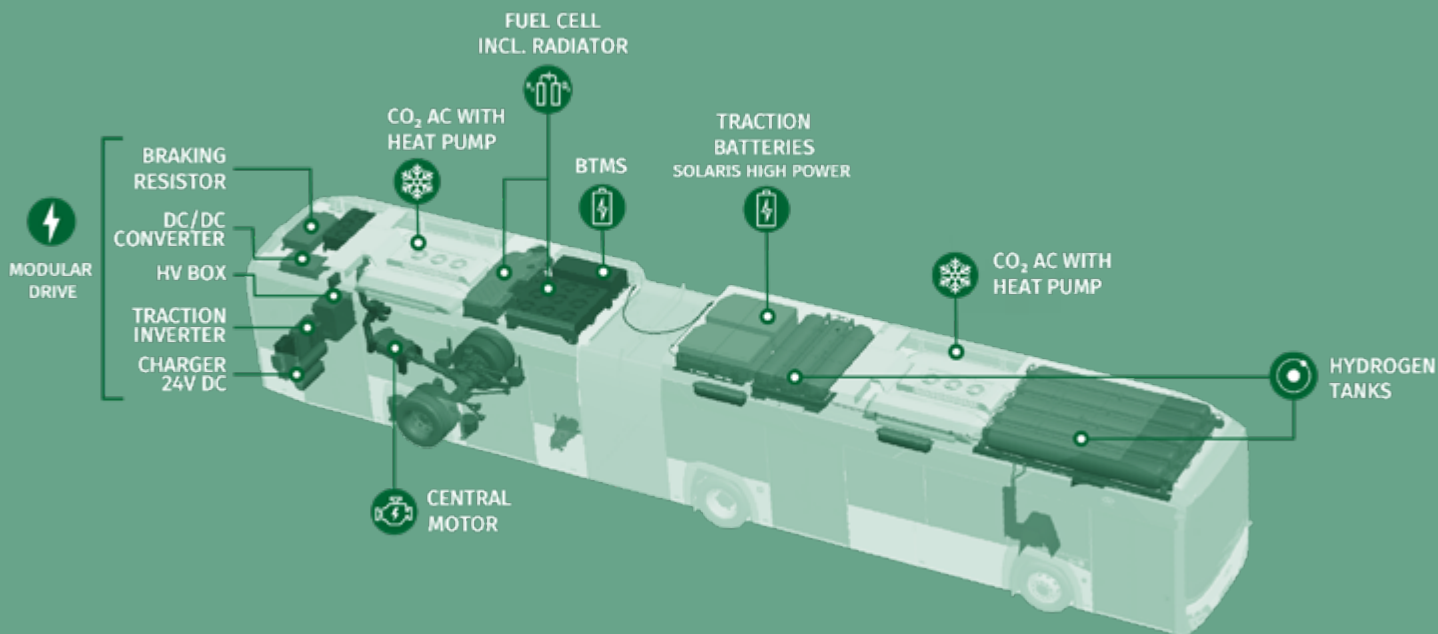
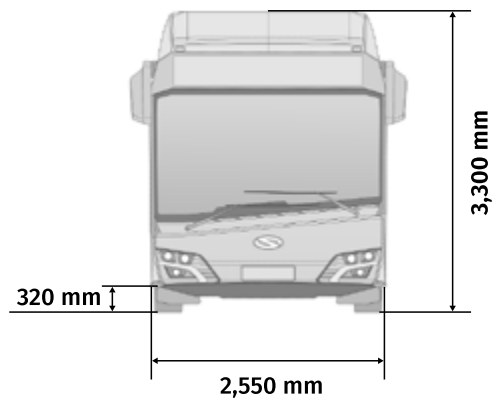
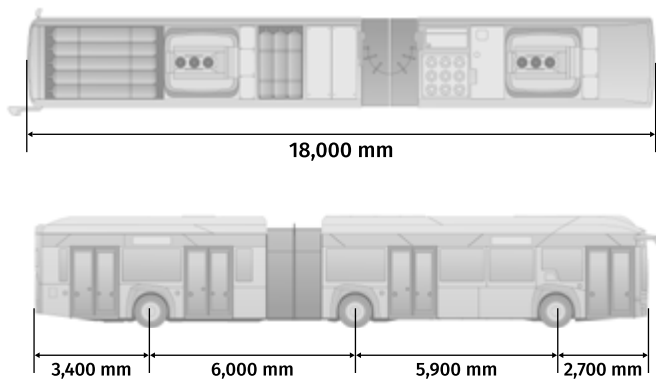
Solaris Urbino 18 hydrogen



The Solaris Urbino 18 hydrogen: setting new standards in sustainable urban transport. With its **advanced hydrogen system**, optimized fuel cell parameters, and a **modular propulsion**, this articulated bus delivers **powerful performance without emissions**.



Overview



Solaris Urbino 18 hydrogen – layout of components

Technical data

DIMENSIONS AND WEIGHT	
Turning radius	Min. 11,475 mm
Interior headroom	Max 2,280 mm
Gross vehicle weight	29,000 kg
PASSENGERS AND DRIVER'S SPACE	
Number of seats	Up to 52, up to 18 low floor seats
Standing places	Up to 88
Total capacity	Up to 140
Driver's seat	Seat with integrated headrest and seatbelt
ENTRANCES	
Entrance height	320/320/320 mm
Door width	Min. 1,200 mm
Door type	1st – IG (Inward Gliding) / 2nd-4th – PS (Plug Sliding)
Door drive	Electric
Door layout	2-2-2-2
HVAC	
Air-conditioning	2 x CO2 heat pump Driver's workspace air-conditioned by AC of the passenger space
Heat pump	Yes
Refrigerant	CO2
Cooling / heating capacity	2 x 25 kW (cooling) + 2 x 21 kW (max heating) / Heating: 37 kW (electric heater)
Type of auxiliary heating	Electric heater (boiler) – acts as a support, heating is mainly done by heat pump
Type, fuel	Electric
DRIVE	
Drive	Modular drive, SiC technology
Motor	240 kW
Arrangement to front axle	Rear mounted motor, left side
Continuous power	240 kW
Peak power	240 kW (electronically limited)
Continuous torque	1,470 Nm
Peak torque	2,100 Nm

FUEL CELL	
Rated power	100 kW
Type	BALLARD FCmove HD+
Maximum efficiency	57%
Estimated lifetime of the product	>30,000 hours of operation
Cold start	From -25°C (no need for preconditioning and external power supply)
Operation in temperatures	-30°C to +50°C
HYDROGEN TANKS	
Type	Type IV, composite
Nominal working pressure	350 Bar
Refuelling connector	Over the right 1st wheelarch (on both sides as an option)
Capacity	2,142 l, 51.2 kg (at 350 bar and 15oC)
BATTERIES	
Type	Solaris High Power
Cell chemistry	LTO
Placement	Roof
Total capacity	60 kWh
CHASSIS	
Front axle	Independent, with stabilizer
Rear axle	Drive axle, ratio i = 9.8
Max. internal steering angle	45.5° +0° -0.5°
Suspension	Pneumatic
Stabilizer	Front axle



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