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Solaris Urbino 18 hydrogen with modular drive

Technical data

Dimensions	L 18,000 mm, W 2,550 mm, H 3,300 mm
Front overhang	2,700 mm
Wheelbase	5,900 mm (1 to 2) / 6,000 mm (2 to 3), 450 mm
Rear overhang	3,400 mm
GVW (gross vehicle weight)	29,000 kg
Door arrangement	2-2-2-2
Electric motor	Central, 240 kW
Electric drive	Modular drive, SiC technology
Front axle	Independent axle, with stabiliser
Neutral axle	Portal axle
Drive axle	Portal axle
Hydrogen fuel cell	100 kW
Hydrogen tanks	2142 l (5x 312 l, 3x 194 l), 51,2 kg
Batteries	Solaris High Power, 60 kWh
Passenger capacity	Up to 140
Maximal number of seats	44 (up to 52 in option)
Maximal number of seats available from low floor	14 (up to 18 in option)
Air conditioning	2x CO ₂ air-conditioning with a heat pump, Driver's cabin air-conditioned via AC of the passenger compartment

Safety and driver assistance systems	GSR2 compliant, R66 Compliant Solutions included in mandatory GSR2: AIF (Alcolock Interlock Installation Facilitation), BSIS (Blind Spot Information System), DDAW (Driver Drowsiness and Attention Warning), ESS (Emergency Stop Signal), ISA (Intelligent Speed Assistant), MOIS (Moving Off Information System), RD (Reversing Detection), TPMS (Tire Pressure Monitoring System) Additional systems: E-mirrors, AHBC (Automatic High Beam Control), LDW(S) (Lane Departure Warning System), LSM (Left side monitoring), PLCA (Passive Lane Change Assist) TSR (Traffic Sign Recognition) Braking system: Acceleration Slip Regulation (ASR), Brake assistance, Brake pads wear monitoring, Electronic Braking System (EBS), Hill Holder Additional braking systems: Collision Mitigation System (CMS) Electronic Stability Control (ECS)
H2 system safety measures	Hydrogen leak sensors, Safety monitoring devices, Roof-mounted components, Low-positioned refuelling connector, Composite Type 4 tanks (350 bar, low permeation rate), TPRD valves, Excess Flow Valve, Multifunction solenoid valve Regulation No. 79 on type-approval of hydrogen-powered motor vehicles and amending directive 2007/46/EC Regulation No. 134 on Uniform provisions concerning the approval of motor vehicle and their components with regards of the safety-related performance of hydrogen-fulled vehicle (HFCV)