

NEW SOLARIS LITE-HYBRID

At the Transport Fair in Prague, the Polish manufacturer unveiled the Urbino 12 LE lite hybrid, in addition to the newly designed Urbino and Trollino

During the Czechbus Prague 2018, the bus and public transport fair held on 20-22 November in Prague, Solaris Bus & Coach presented a premiere of its latest innovation: the Urbino 12 LE lite hybrid. The hybrid version of the low-floor Urbino 12 is 'lite', i.e. low fuel consumption. A vehicle that is lightened in terms of weight, consumption and emissions.

The heart of the drive system is the Cummins ISBE6 engine with volume of only 4.5 liters. It is a 210-hp Euro 6 engine with a torque of 850 Nm. The lite hybrid drive system consists of an electric motor with

nominal power of 11,5 kW which is tasked with recuperating energy during the braking process and supporting the combustion engine when the vehicle starts moving, which consequently leads to it consuming less fuel.

The front axle is provided by ZF RL55 while the drive axle is DANA type G150. The size of the wheels differ from the standard solutions of the Solaris city buses. The vehicle will in fact be equipped with wheels of a

smaller diameter (19.5 inches).

"The main objective of the engineers who developed the Urbino lite hybrid," explains the Polish manufacturer, "was to create a bus that would consume less than 30 liters of fuel per 100 km in the SORT 2 test. The engineering work was focused on multiple areas in order to accomplish the above, but one of

the main factors was reduction of the vehicle's weight. The curb weight is less than 9 tonnes and its weight with passengers is 15 tonnes".

The Solaris Urbino 12 LE lite hybrid will be available in version with two doors and

will accommodate up to 85 passengers, 41 of them seated.

At the trade fair in Prague, Solaris also showcased solutions for electric transport with the Urbino 12 Electric equipped with two 125 kW electric engines and the latest-generation Trollino trolleybus. Since the launch of its first electric bus, Solaris has delivered about 200 vehicles in 14 countries and another 150 are being assembled. ●



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