

12m Hybrid Bus

VERIS.12



VERIS.12 Hybrid Diesel Euro 6 (VERIS.12 HYBRID)
 VERIS.12 Hybrid Plus Diesel Euro 6 (VERIS.12 HYBRID+)



**Standard 12-m Integrated Low-floor Urban Bus.
 Class 1 (+R66.02-compliant)**

Serial Hybrid-Electric Traction

- 180-KW Maximum Traction Power.
- 1,500-Nm Maximum Torque from stop to 20Km/h, automatically limited for passenger comfort.
- Gentle start-up (Jerk < 3m/s³, adjustable).
- Maximum Acceleration Control (Acceleration < 1.2m/s², adjustable).
- Maximum Speed Limited to 80Km/h.

Euro VI Diesel Generator

- 180-KW Maximum Power (Vehicle Traction Power).
- Optimum System Control for Maximizing Power Efficiency.

Power Accumulation System

- 180-KW Maximum Power (Vehicle Traction Power).
- Auxiliary Consumption Feed in Stops.

High-capacity Air-conditioning/Heating System

Traditional Vehicle Operating System

(Same as Conventional Diesel Vehicle)

- No Added Infrastructure (either in Bodywork or on the Road).
- Transparent to Operators (Same Routes, Cycles and Autonomy).
- Transparent to Drivers (Similar Driving System).

Great Travelling Comfort

- Jerk-free Continuous Traction.
- Power and Brake Delivery Control.
- Reduced Noises and Vibration.

VERIS.12 HYBRID+

Additional solutions to the VERIS.12 HYBRID

Following are additional to the features of the Veris.12 Hybrid:

- + **Zero Contaminating Emissions at Stops, Urban Centres, Garages and Workshops (Zero-Emissions @ Restricted Zones).**
- + **Additional 100% Electric Autonomy. (On-board Power Configurable per Operating Needs).**

1.- Dependent on Operating Conditions.

2.- Thanks to the Start&Stop, Full-Electric Depart and Partially Full-Electric Drive functions.

3.- ESS configuration with Hybrid+ Technology.

Zero Contaminating Emissions at Stops

- Generator Start/Stop (Start & Stop).
- 100% Electric Start-up.

High Power Efficiency

(Fossil Fuel Consumption Savings of around 30%). (1)

- Regenerative Brake and Kinetic Energy Storage (KERS & ESS).
- Combustion Motor Performance Optimization (Operates under Optimum Performance).
- Generator Stoppage at Stops and 100% Electric Start-up.
- Electric Activation for Auxiliary Systems (Improved Power Performance as against Combustion Motor Activation).
- Efficient Driving Consumption and Auxiliary Equipment Management.

Environmentally-respectful Vehicle (2)

- Reduction of CO₂ emissions.
- Reduction of contaminating emissions (Low PM, NOx, CO & HC Emissions Beyond EURO VI). (3)
- Reduction of Acoustic Contamination.
- Reduction of Fossil Fuel Consumption.

Full-Electric Convertible Vehicle throughout its Useful Life

- From Hybrid (Any Version) to 100% Electric.

Highly Customizable Bodywork Solutions