



## Foton Hydrogen Fuel Cell 50 Seat Bus Has A Range Of 450 Kilometers

Our Product Introduction

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### Basic Information

- Place of Origin: China
- Brand Name: Fushunte
- Model Number: Foton hydrogen fuel cell 50-seat bus has a range of 450 kilometers
- Minimum Order Quantity: 1 vehicle
- Price: \$380,000-\$400,000Dollar
- Packaging Details: Complete vehicle
- Delivery Time: 5-8 work days
- Payment Terms: T/T
- Supply Ability: 1000 vehicle



### Product Specification

- Overall Dimensions: 12000×2500, 2550×3470, 3640(mm)
- Total Mass: 18000(Kg)
- Curb Weight: 12950,13600(Kg)
- Rated Passenger Capacity: 27-50 (person)
- Highlight: **Hydrogen Fuel 50 Seat Bus, 450Kilometers 50 Seat Bus, 260KW Coach Tour Bus**



### More Images



## Product Description

### Foton Hydrogen Fuel Cell 50-Seat Bus Has A Range Of 450 Kilometers

#### Paragraph 1: Basic Principle of Hydrogen Fuel Cell Buses

A hydrogen fuel cell bus is a type of vehicle that utilizes hydrogen gas as its fuel source. It is based on fuel cell technology, which converts the chemical energy of hydrogen and oxygen into electricity to power an electric motor. The only byproduct of this electrochemical process is water vapor, making hydrogen fuel cell buses environmentally friendly with zero emissions.

#### Paragraph 2: Hydrogen Fuel Supply and Storage System

Hydrogen fuel cell buses require a reliable hydrogen fuel supply and storage system. Hydrogen gas can be stored in the vehicle's onboard hydrogen tanks in the form of compressed hydrogen gas or liquid hydrogen. The tanks are typically made of high-strength materials and equipped with safety valves and pressure relief devices to ensure safety. To provide a stable fuel supply, the hydrogen system also includes hydrogen transfer pipelines, filters, and pressure regulators.

#### Paragraph 3: Fuel Cell System

Hydrogen fuel cell buses are equipped with a fuel cell system that converts hydrogen gas and oxygen into electricity. The fuel cell stack consists of multiple fuel cell units, each containing an anode, cathode, and electrolyte layer. When hydrogen gas passes through the anode and oxygen passes through the cathode, they react within the electrolyte layer, generating electrons and ions. The flow of electrons through an external circuit produces electrical energy to drive the electric motor.

#### Paragraph 4: Powertrain System of Hydrogen Fuel Cell Buses

The powertrain system of a hydrogen fuel cell bus primarily consists of the fuel cell, electric motor, and battery pack. The fuel cell provides direct electrical energy to drive the electric motor, which propels the wheels. The motor control system monitors and regulates the energy conversion between the battery pack and the fuel cell for optimal performance and energy utilization. The battery pack is typically used as an auxiliary power source to provide additional power output.

#### Paragraph 5: Advantages and Challenges of Hydrogen Fuel Cell Buses

Hydrogen fuel cell buses offer several advantages, including zero emissions, long driving range, quick hydrogen refueling, and fast refueling times. They can provide a similar driving experience to conventional fuel vehicles while helping to reduce air pollution and greenhouse gas emissions. However, hydrogen fuel cell buses also face challenges such as hydrogen supply infrastructure development and costs, hydrogen storage safety, and the establishment of hydrogen refueling infrastructure.

Conclusion: Hydrogen fuel cell buses are vehicles that utilize fuel cell technology with hydrogen gas as the fuel source. They have reliable hydrogen fuel supply and storage systems, with the fuel cell system converting hydrogen and oxygen into electricity to power the electric motor. Hydrogen fuel cell buses offer advantages such as zero emissions and long driving range, but they also face challenges related to hydrogen supply and storage. These clean energy vehicles contribute to reducing environmental pollution and greenhouse gas emissions.

#### Vehicle technical parameters:

Overall dimensions: 12000×2500, 2550×3470, 3640(mm)

Total mass: 18000(Kg)

Curb weight: 12950,13600(Kg)

Rated passenger capacity: 27-50 (person)

Approach angle/departure angle: 9/8(°)

Front suspension/rear suspension: 2420/3380(mm)

Axle load: 6500/11500

Wheelbase: 6200(mm)

Number of axes: 2

Maximum speed: 100(km/h)

Number of tires: 6

Front wheelbase: 2060, 2090

Rear wheelbase: 1860, 1890

Tire specifications: 295/80R22.5

Engine:FTTB135A

Power(kw):260

Fuel type: Hydrogen

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