

Starbus EV FUEL CELL

The Tata Starbus Fuel Cell EV is India's first Hydrogen Fuel Cell bus, indigenously designed and developed by Tata Motors. It is a modern state-of-the-art mass mobility solution for urban transport requirements. With zero-emission and noiseless operations, the newly designed fuel cell bus meets the requirement for cleaner public transport vehicle. It offers modern features like improved safety, easy of boarding with its low entry and comfortable seats. It is the perfect solution for future urban mass mobility as it benefits all stakeholders and helps curb air-pollution.

Features:

- Fuel cell Hydrogen bus with zero emissions for clean air
- Fatigue-free driving without clutch and gear shifting
- Regenerative braking for high efficiency
- Electronic Braking System (EBS) and Electronic Stability Control (ESC) for higher safety
- Compliant with Advanced Driver Assistance System (ADAS) like Driver Monitoring System (DMS), Lane Departure Warning System (LDWS), Tyre Pressure Monitoring System (TPMS) and Frontal collision avoidance system
- Roomy interiors which can be customised as per the application and regulations
- High safety and security with Intelligent Transport System (ITS)
- New generation telematics for efficient and user-friendly vehicle maintenance and tracking
- Passenger information system with destination boards and audio announcements
- Stylised interior and exterior with, plush interior lighting
- Utility provisions like charging ports, Wi-Fi hotspot for on-the-go connectivity

Applications: Urban Transport (City Bus)



Technical specifications:

Parameter	Description
Chassis	
GVW	19.5 tonne
Overall Dimensions (mm)	12000
Wheel Base (mm)	6300
Floor Height (mm)	400
Overall Height (mm)	3350
Overall Width (mm)	2600
No. of doors	2
Seating Capacity	35 + Driver + Wheel chair & customisation options available
Brakes	Disc Brake in the front & Drum brake at the rear with EBS
Air suspension	Air suspension in the front & rear (optional feature of ECAS)
Steering	Hydraulic power steering with Tilt & Telescopic feature (optional)
Performance	
Max. Speed	70-75 kmph
Grade-ability	17% at rated GVW
Range	~250 to 300km scalable as per requirements.
HV System	
Motor	Integrated Motor Generator
	Max Power – 245kW
HV Battery	Li-Ion Battery Pack, Capacity: 25 - 30kWh
Fuel cell Stack	Net System Power: 75-100kW
	Cooling type: Liquid, 50/50 water-glycol
Fuel System	Type: Compressed Hydrogen Gas
	Tank type: 4 Cylindrical of TYPE III
H2 Filling	10 min at 350 Bar.

