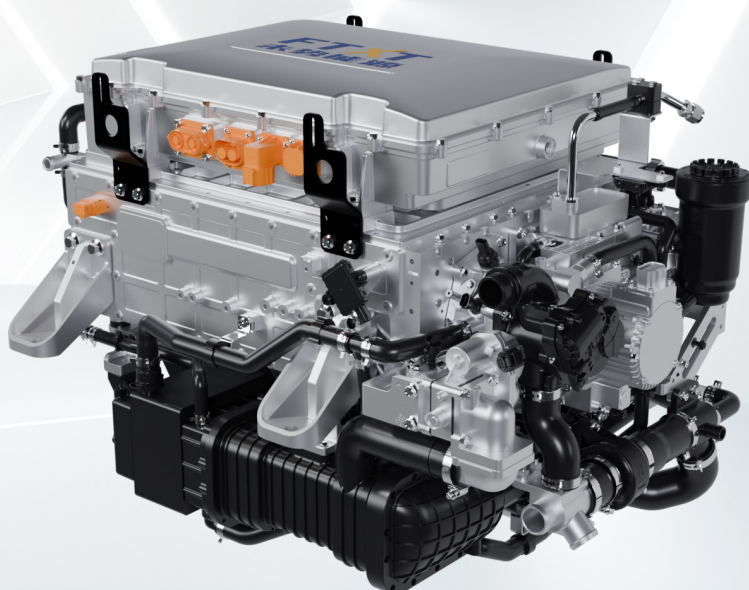


# 120kW Commercial vehicles hydrogen fuel cell engine



Weight  
256 kg

Peak system power  
121 kW

Rated power  
120 kW

Minimum Stable Power  
12 kW

Insulation  
≥ 1000 Ω/V

System output voltage  
500~750 V DC

Highest system efficiency  
58%

System rated efficiency  
42%

Protection level  
IP67

Operating temperature range  
-30°C ~45°C

## PRODUCT PRESENTATION

This product is a 1.5 generation fuel cell engine product of FTXT, and the core components such as stack, air compressor, DC/DC are all domestic, independent and controllable, realizing the design concept of low cost, high life, high efficiency, high integration, and vehicle specification level, and can be widely used in heavy-duty, high-power, commercial vehicles and other fields.

## TECHNICAL HIGHLIGHTS

- High-Integration Mechanical Layout-Utilizes same-side arrangement for hydrogen, air, and water. The Balance of Plant (BoP) auxiliary components are directly integrated into the manifold. The components are developed forwardly according to space and performance requirements,
- High System Reliability-Rigorous DV validation and vehicle-grade online health diagnosis (NODS "Nod Doctor") ensure system reliability.
- Efficient Key BOP-Automotive-grade, highly integrated air compressor with a comprehensive machine efficiency of 71%. The DC/DC converter uses high-frequency Silicon Carbide (SiC) technology, achieving a maximum efficiency of 98%, leading the industry. The hydrogen pump operates at high speed, is compact in size, and generates low noise.

## Application scenario of 120kW Commercial vehicles hydrogen fuel cell engine

The application of this product has covered dump truck, mixer truck, bus, logistics vehicle and other hydrogen fuel cell vehicle models, and has made great progress in ships, rail transit, aircraft and other fields.



# Breaking Frontiers in Technology, Fueling Tomorrow with Hydrogen

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