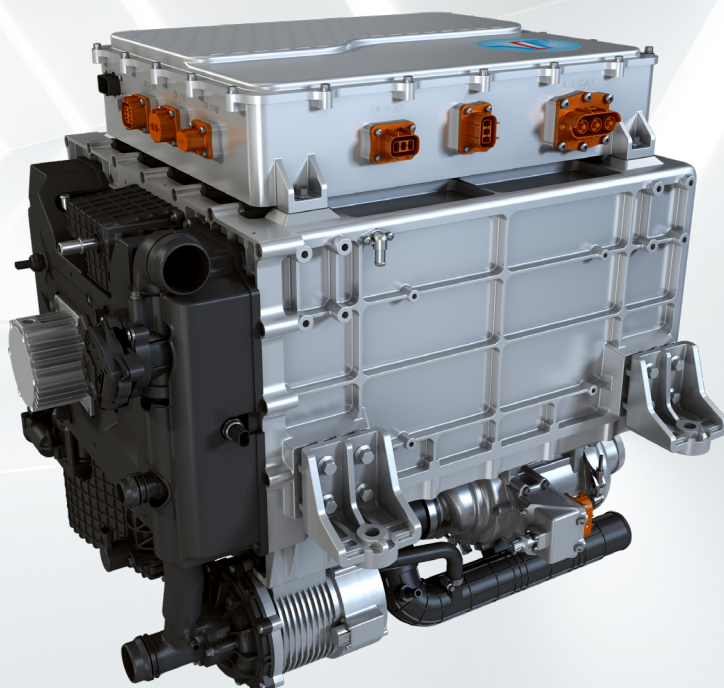


# 255kw Commercial vehicles hydrogen fuel cell engine



System net output power  
255kW

System rated efficiency  
44%

Maximum system efficiency  
60%

Output voltage  
450V~750V

Cold start temperature  
-30°C

Mass specific power density  
>760W/kg

System lifetime  
20000h

Protection level  
IP67

## PRODUCT PRESENTATION

Commercial vehicles hydrogen fuel cell engine adopts the integrated design of innovative technology, with ultra-high system power density, ultra-long service life. It can meet the requirements of high and low temperature in all operating conditions, and is more suitable for the market of long-distance and heavy-duty applications.

## TECHNICAL HIGHLIGHTS

- High efficiency-The stack operation has been transformed to be efficient, improving the efficiency of system components, including air compressor with expander, efficient DCDC, etc.
- High durability-System components have a longer lifetime, especially humidifier, air compressor, etc. At the same time, the system control software has been developed to ensure the lifetime of the system, which is more suitable for fuel cell applications.
- High integration-Simplify system design, adopt new integration concept and integrated design.
- Low cost-Set up cost engineering, and evaluate technology in multiple dimensions such as system design, integration, material model selection and processing technology to achieve cost reduction.
- Low noise-Improve NVH performance of air compressor, water pump, hydrogen circulation pump and reduce the intake & exhaust noise to meet customers' requirements for comfort.

## Application scenario of 255kW commercial vehicle hydrogen fuel cell engine

The application of this product has covered hydrogen fuel cell vehicle models such as heavy truck, dump truck, mixer truck, and has made great progress in the fields of ships, rail transit and aircrafts.



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FTXT Energy Technology Co., Ltd.



12-B, NO.6655 Jiasong North Road, Jiading District, Shanghai, China  
NO.2299 Chaoyang South Street, Lianchi District, Baoding, Hebei, China

0312-2196535  
[www.ftxt-e.com](http://www.ftxt-e.com)