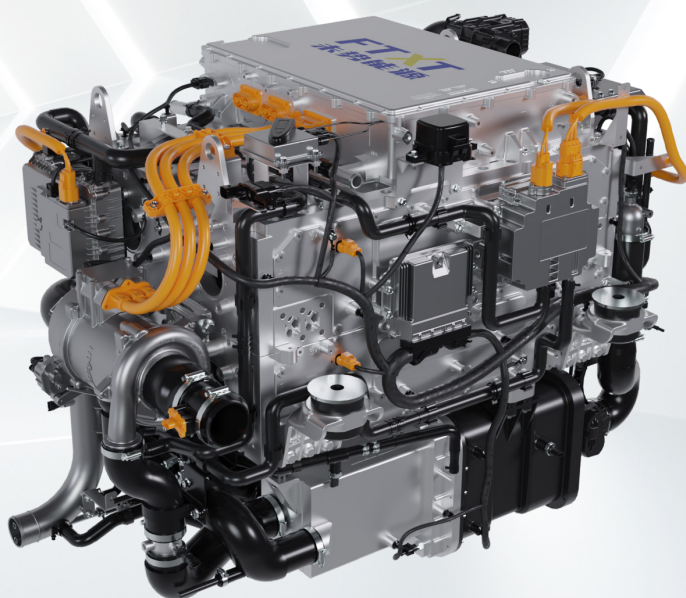


180kW hydrogen fuel cell engine



System net output power
180kW

System rated efficiency
47%

uplift rate
> 20kW

Lowering rate
> 40kW

Output voltage
450V~750V

Cold start temperature
-35°C

Altitude
180kW@2000 meters

System lifetime
20000h @20%

Protection level
IP67+IP6K9K

PRODUCT PRESENTATION

Adopting innovative technology and integrated design, it has ultra-high system power density, long service life, and can meet the demand of high and low temperatures in all working conditions, which is more suitable for long-distance and heavy-duty application market.

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 180kW 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.



Breaking Frontiers in Technology, Fueling Tomorrow with Hydrogen

未势能源科技有限公司

FTXT Energy Technology Co., Ltd.



0312-2196535

www.ftxt-e.com