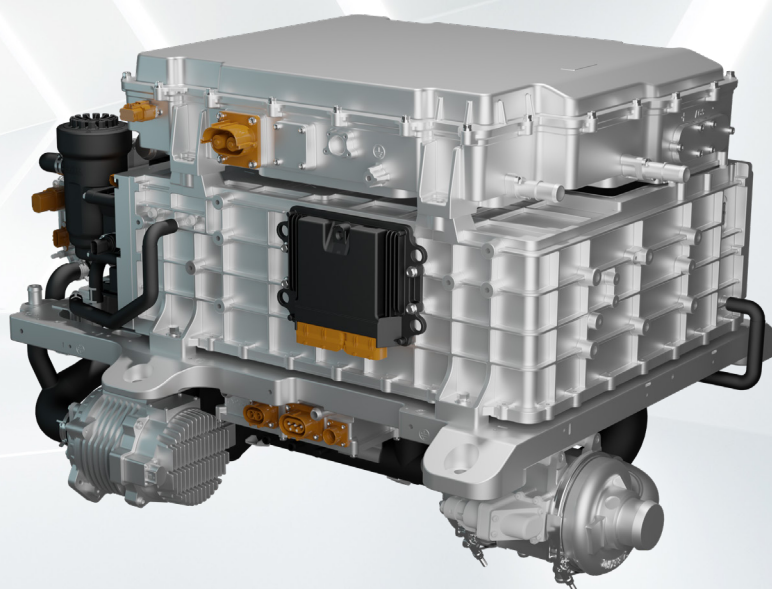


# 80 kW Commercial Vehicle Hydrogen Fuel Cell Engine



System net output power  
80kW

Stack power density  
2.82kW/L

Maximum system efficiency  
57%

Output voltage  
450V~750V

Cold start temperature  
-30°C

Mass specific power density  
449.03W/kg

System lifetime  
10000h

Protection level  
IP67

Peak system power  
80.5kW

Operating temperature range  
-30°C ~45°C

## PRODUCT PRESENTATION

The engine is designed with the integration of innovative technologies, and has the advantages of low noise, good electromagnetic compatibility and long service life. It supports the recovery and reuse of waste heat of the system, and can effectively meet the requirements of high and low temperature in all operating conditions.

## TECHNICAL HIGHLIGHTS

- 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.
- Low noise-NVH performance of air compressor, water pump, hydrogen circulation pump and the intake & exhausted air silencer can meet customers' requirements for comfort.
- High electromagnetic compatibility-The system has far better radiation emission and conduction emission quantity than the international standard requirements, and has good radiofrequency immunity, conduction immunity, transient state immunity, electrostatic discharge immunity, radiofrequency immunity, magnetic field immunity, electric rapid pulse group immunity.

## Application scenario of 80 kW commercial vehicle 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.



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