

# 100 kW Passenger vehicle hydrogen fuel cell engine



|                              |             |
|------------------------------|-------------|
| System net output power      | 100kW       |
| Maximum loading speed        | 60kW/s      |
| Highest system efficiency    | 61%         |
| The output voltage           | 400V~830V   |
| Cold start temperature       | -30°C       |
| Mass specific power density  | 560W/kg     |
| System service life          | 5000h       |
| Maximum response speed       | 60kW/s      |
| Volume specific power        | 700W/L      |
| Range of working temperature | -30° C~45°C |

## PRODUCT PRESENTATION

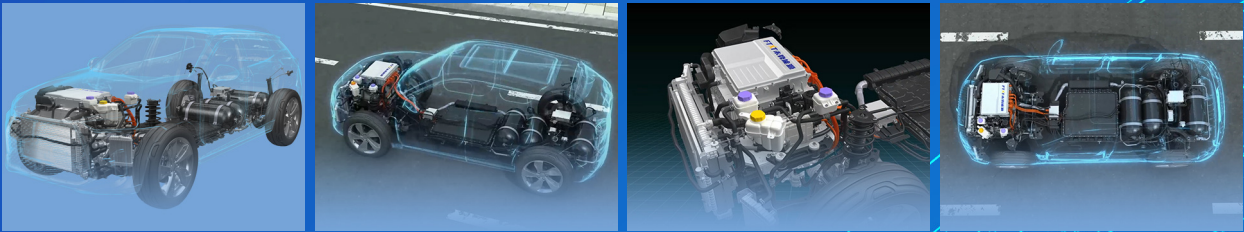
It adopts the integrated design with innovative technology, combining with ultra-high system power density, ultra-long service life, which can effectively meet the high and low temperature requirements of all operating conditions.

## TECHNICAL HIGHLIGHTS

- High efficiency-Improve the efficiency of system components, decrease the operating conditions of the stack, and effectively improve the operating efficiency of the fuel cell system.
- High durability-System components have a longer life, such as humidifiers, air compressors, etc. At the same time, a system control software more suitable for fuel cell applications has been developed to ensure the life of stacks.
- High integration-Simplify system design, adopt new integration concept, and integrate multiple advanced control technologies.
- Low cost-Build cost engineering and evaluate technology in multiple dimensions such as system design, integration, material selection, and processing technology to achieve cost reduction.
- Low noise-It is reflected in the NVH performance of air compressors, water pumps, hydrogen circulation pumps, and noise reduction of intake and exhaust to meet customers' requirements for comfort.

## Application scenario of 100 kW passenger vehicle hydrogen fuel cell engine

This product is mainly used in the field of hydrogen fuel passenger cars, but also can be extended to other fields.



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