

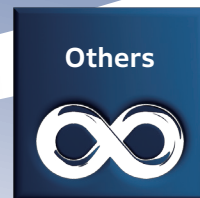
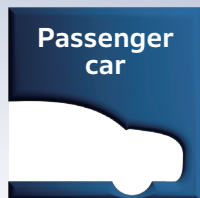
Honda Fuel Cell Module

e: FUEL CELL



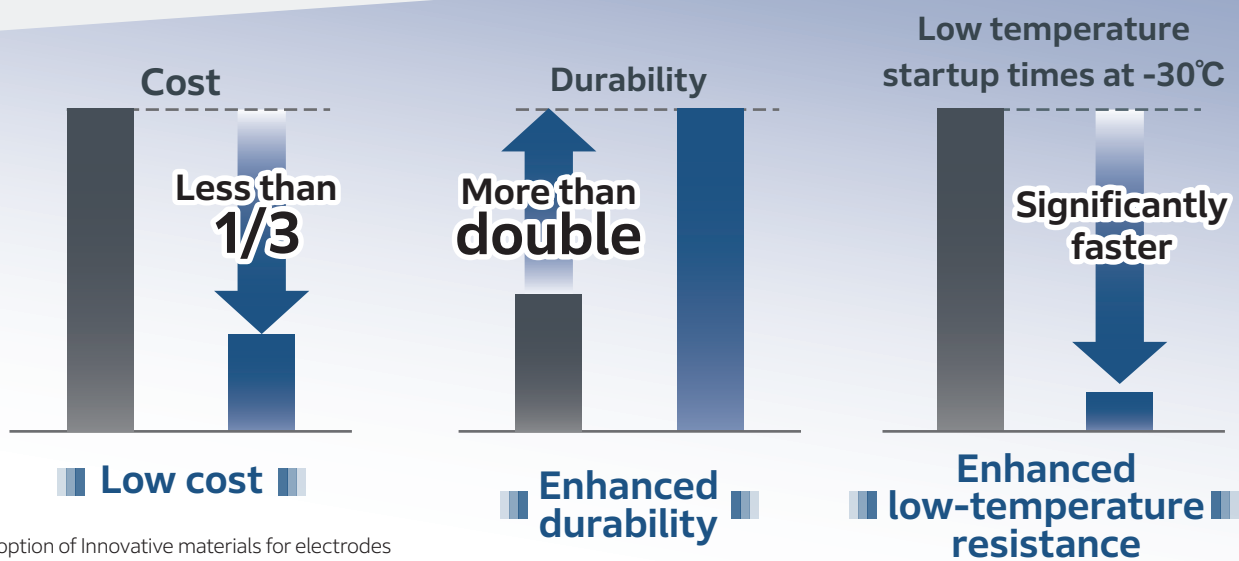
Module was developed based on the fuel cells co-developed by General Motors(GM) and Honda

Innovative solutions that pave the way for a hydrogen-powered future



- ▶ Honda aims to promote the use of hydrogen and achieve carbon neutrality in various industries at an early stage through the application of hydrogen to a wide range of applications, by popularizing hydrogen and fuel cells, which we have been refining for over 25 years.
- ▶ We aim to achieve mass production in the US in 2025, with significant enhancements in cost, durability, and low-temperature resistance over the previous CLARITY FUEL CELL model.
- ▶ We will aim to contribute to our customers' decarbonization efforts by providing a wide range of support, from development to operation and after-sales service, leveraging our extensive experience gained through the social implementation of FCEVs.

Advancements of technology compared to the previous module



Adoption of Innovative materials for electrodes
 Advancement of a cell sealing structure
 Simplification of the supporting equipment ("balance of plant")
 Enhancement of FC stack production efficiency

Application of corrosion-resistant materials
 Controlled suppression of deterioration

Controlled warmup

Specifications

Model	FCX2
Maximum Output (Net)	78 kW
Output Voltage	275 – 600 V
Output Current	10 – 470 A
Maximum Efficiency (Net)	56.8 %
FC Refrigerant	Honda Genuine FC refrigerant
Hydrogen Gas Composition	ISO14687 Grade D
Hydrogen Gas Supply Temperature	-60°C – +85°C
Hydrogen Gas Supply Pressure	1.85 – 87.5 MPaG
Module Dimensions	W1070 × D738 × H705 mm
Volume · Volumetric Density	557 L · 0.14 kW/L
Weight · Weight Density	206 kg · 0.38 kW/kg
Operating Temperature	-30°C – +60°C
Storage Temperature	-40°C – +60°C
Max Altitude	3,500 m
Max Tilt Angle	19°
Ingress Protection Rating	Equivalent to IP67
CAN Communication Standard	ISO11898
Compatible Communication Speeds	500 kbps

※These are target values for development and may change in future

For those of you aiming to achieve carbon neutrality with hydrogen fuel cells, we would like to offer developmental and operational support based on our extensive experience gained from FCEV development over a long period of time.

For inquiries or business discussions, please feel free to contact us from here

<https://global.honda/en/hydrogen/>

