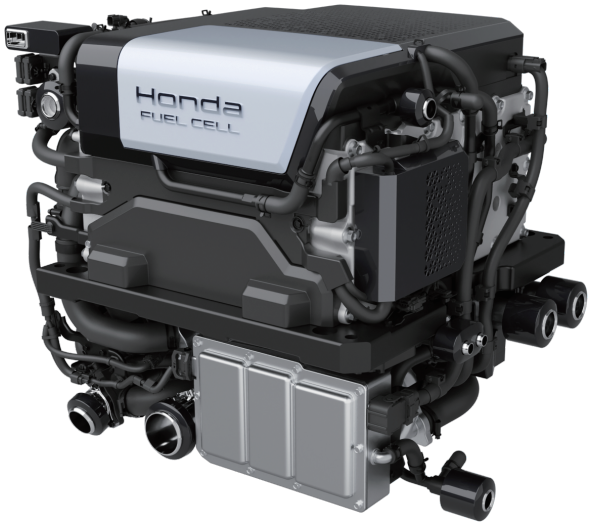
Honda Next Generation Fuel Cell Module

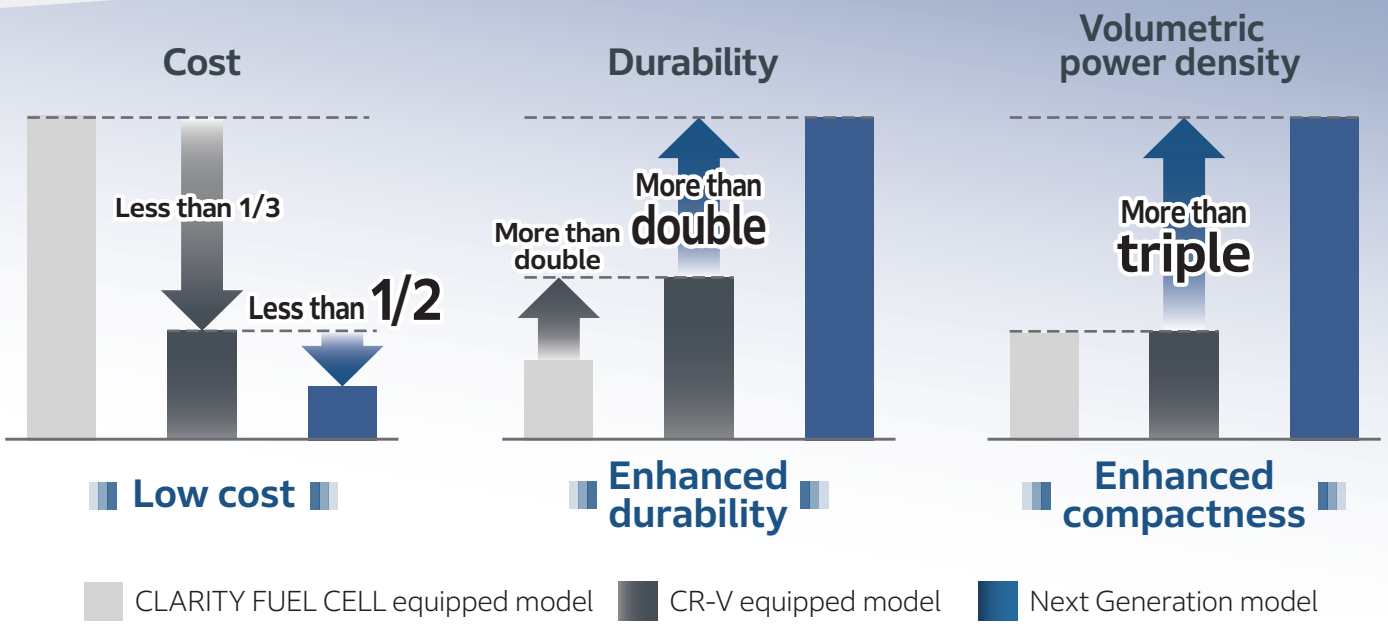


Honda
FUEL CELL

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

- Honda will establish new production facilities in Japan to mass-produce next-generation fuel cell modules.
- The new plant is set to begin operation in 2027 and will aim to have an annual production capacity of 30,000 units.
- Improving upon the CR-V-equipped fuel cell module, we aim to achieve high reliability and compactness by adding significant enhancements in cost, durability, and volumetric power density.
- We will aim to support our global customers' decarbonization efforts across diverse applications, offering comprehensive assistance from development to operation and after-sales service, leveraging our extensive experience gained through the successful deployment of FCEVs.

Advancements of technology compared to the previous module



Specifications

Maximum Output (Net)	150 kW
Output Voltage	450 – 850 V
Maximum Efficiency (Net)	59.8 %
FC Refrigerant	Honda Genuine FC refrigerant
Hydrogen Gas Composition	Equivalent to ISO 14687
Low Voltage Power Supply	DC24V
Module Dimensions	W730 x D580 x H700 mm
Volume・Volumetric Density	300 L・0.50 kW/L
Weight・ Weight Density	250 kg・0.60 kW/kg
Operating Temperature	-30˚C – +60˚C
Storage Temperature	-40˚C – +60˚C
Max Altitude	3,500 m
Ingress Protection Rating	Equivalent to IP67
CAN Communication Standard	ISO11898
Communication Protocol	SAE J1939 / Honda Hi-Speed CAN (selectable)
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/