

2022 Ulsan International Future
Automotive EXPO



2022 / 03 / 10

Table of Contents

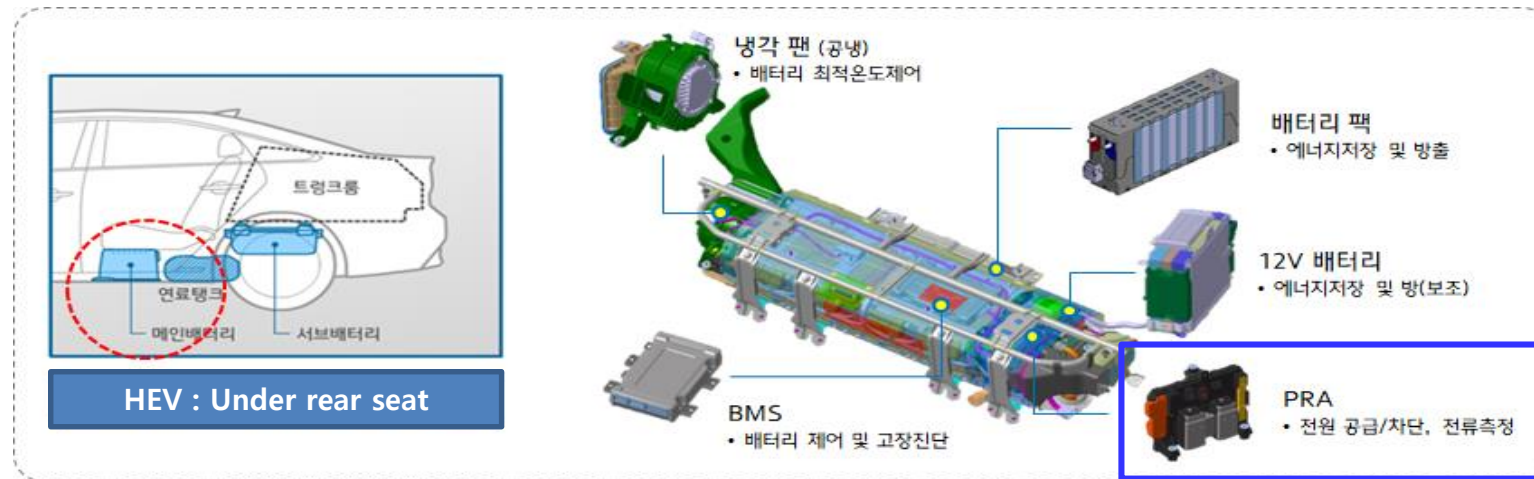
1. PRA (Power Relay Assembly)
2. TIM (Thermal Interface Material)
3. Vehicle Dual Gasket in Stack
4. Industrial Dual Gasket in Stack

1. PRA (Power Relay Assembly)

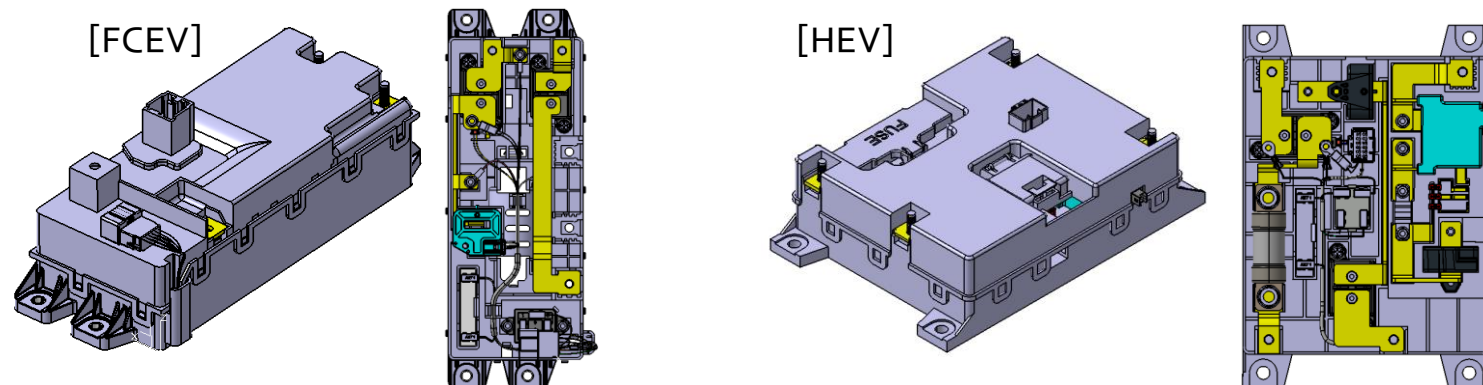
■ Function : Stores electric energy when charging an electrified vehicle, and supplies electric energy to the motor when driving the vehicle.

1) A device that supplies/blocks the power of the high voltage battery pack to the drive system and performs various control functions: intermittent power supply to the battery system

2) Manages of connecting/disconnecting driving power between parts of the battery system, prevents secondary accidents (fire/shock) in case of failure



■ Application :



[Unit :mm]

	Width	Length	Height
FCEV	121	312	108
HEV	184	263	80

2. TIM (Thermal Interface Material)

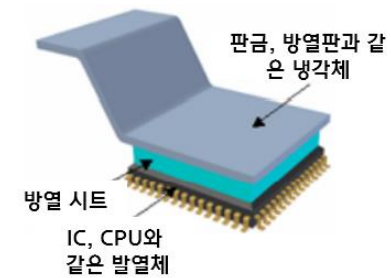
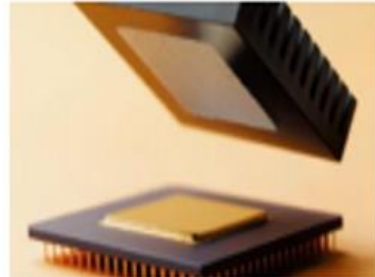
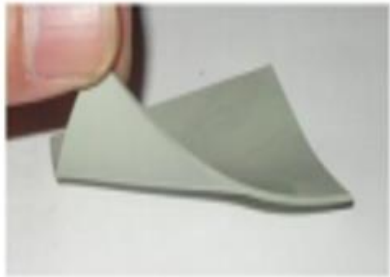
■ Function : A protection against heat material that cools the heat generated by the battery inside the electric vehicle.

1) Organic polymers such as silicone have low thermal conductivity, so complexation with individual particles with high thermal conductivity is an important technology.

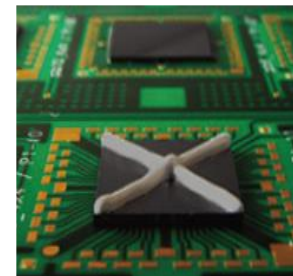
2) As a thermally conductive material, it is necessary to select a silicone polymer with excellent flexibility, high filling, and stability.

■ Application :

1) Thermal Sheet (Thermally Conductive Silicon Sheet)



2) Thermal Gap Filler (Thermally Conductive Silicon Gap Filler)

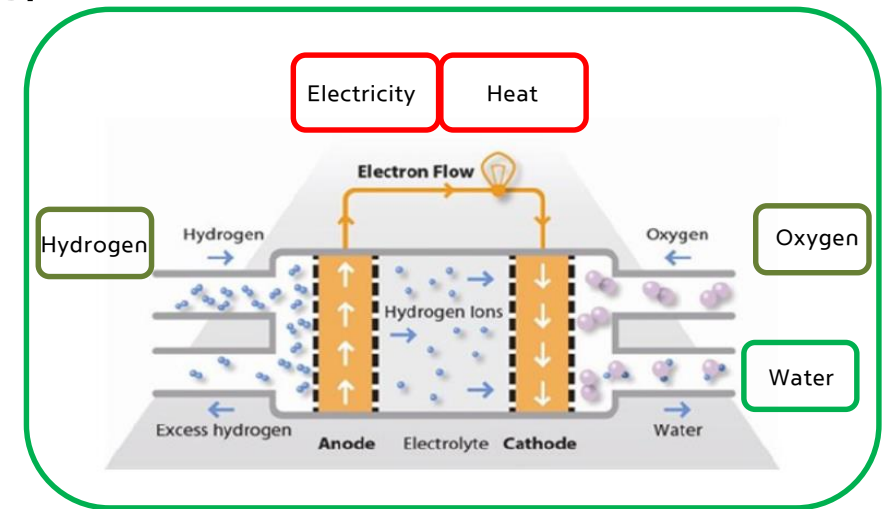
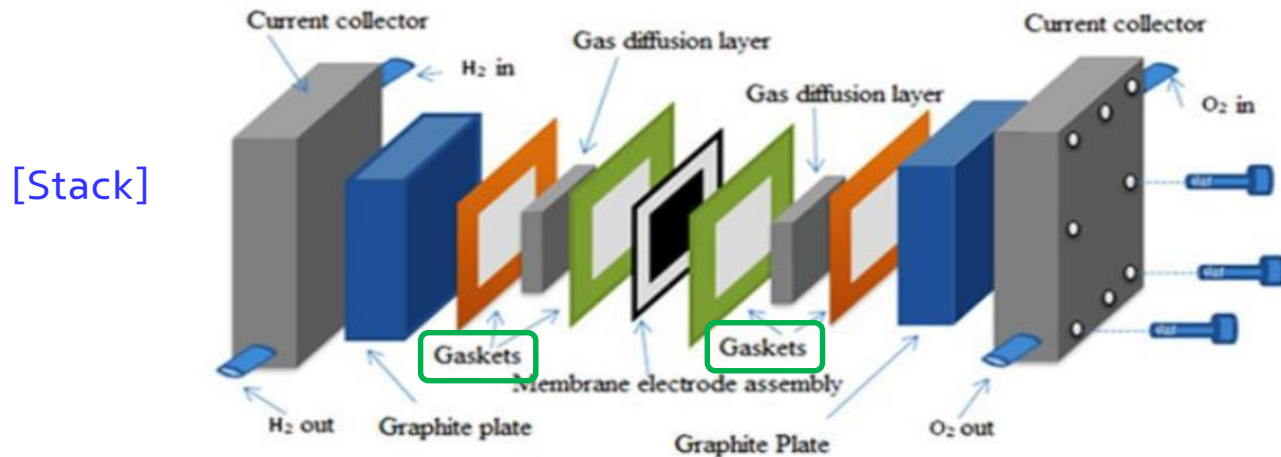


3. Vehicle Dual Gasket in Stack

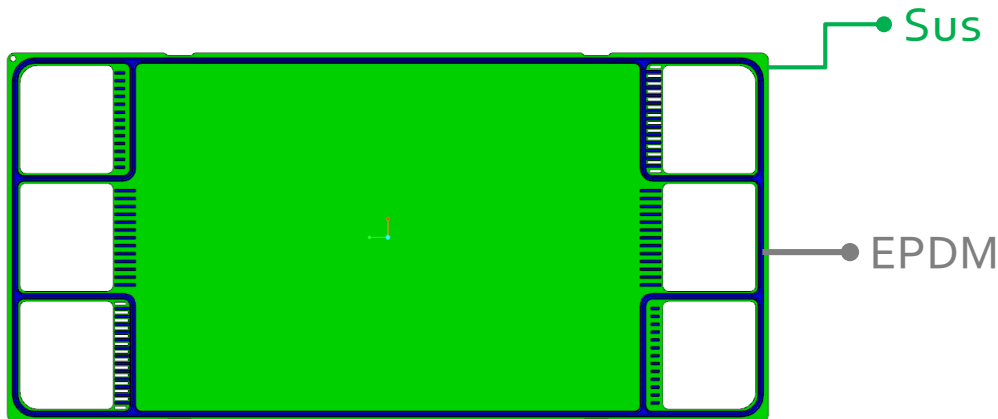
■ Function : Assembly parts of the fuel cell stack (Stack : Electricity is generated through an electrochemical reaction using hydrogen and air supplied from the outside)

1) Absorbs thickness variations of membrane electrode assemblies and separators when assembling a fuel cell stack

2) Maintains high pressure, acid resistance, heat resistance and water resistance by completely separating hydrogen, oxygen, and cooling water from external and other flow paths.



■ Application :

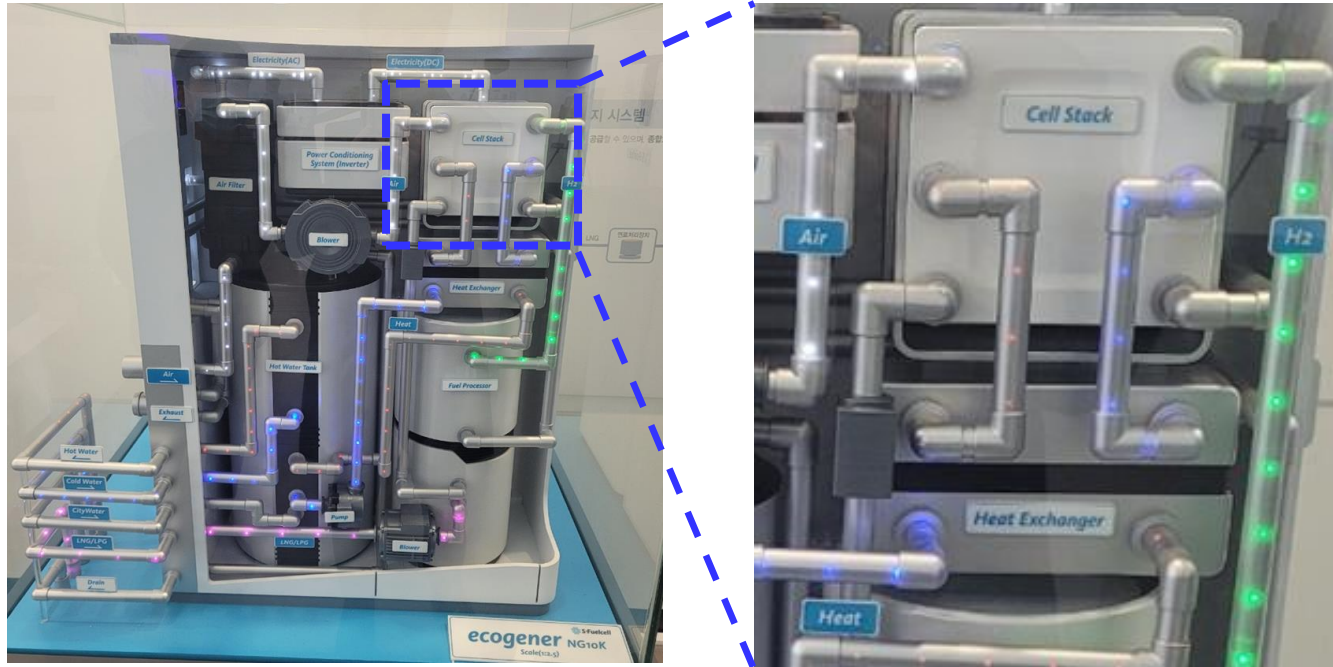


[Unit :mm]

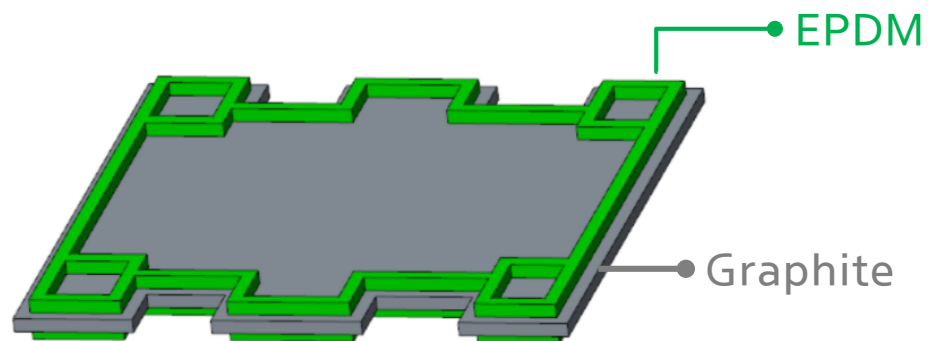
X	Y	Thickness
150	310	1

4. Industrial Dual Gasket in Stack

■ Function : Gasket for industrial generator stack, used as emergency power generator in government offices and various public institutions.



■ Application :



[Unit :mm]

X	Y	Thickness
180	200	5