

FCV The Vehicle that will Lead the Way to a Hydrogen-Based Society

The Fuel Cells are comprised of a polymer electrolyte membrane (PEM) formed with catalyst layers which are held on both sides by Gas Diffusion Layers (GDLs). This Membrane Electrode and Gas Diffusion Layer Assembly (MEGA) is sandwiched into a cell by separators. Each cell has a voltage of 1V or less. Therefore a few hundred cells are connected in series increasing the

voltage. These cells combined together are called a "FC-stack", and this FC stack is usually what is being referred to when talking about a "Fuel Cell". Unlike a battery the Fuel Cell has no way of storing electricity and can only generate and supply it through the chemical reaction between hydrogen and oxygen, acting as a power generation device.

