

# Fuel Cell

Micro Fuel Cell



## MEMS Flow Sensors



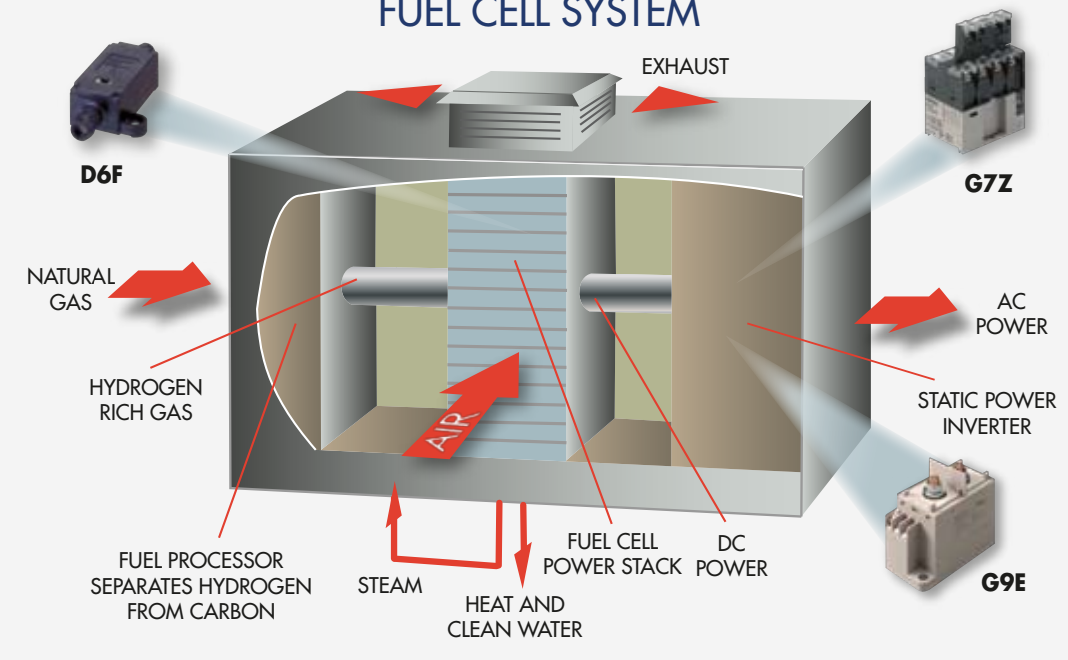
## Bypass Style Flow Sensors

**D6F-P**  
1 LPM Flow Sensors with integrated dust segregation system, can be used in a bypass setup to measure flow rates over 200 LPM. Great alternative to differential pressure sensors, for better low flow resolution.

## In-line Style Flow Sensors

**D6F-01/02, D6F-05, D6F-10/20/50**  
Mass Flow Sensors for 1 LPM up to 50 LPM incorporate a series of inlet screens ensuring an even laminar flow across the sensing element.

## FUEL CELL SYSTEM



Stationery Fuel Cell



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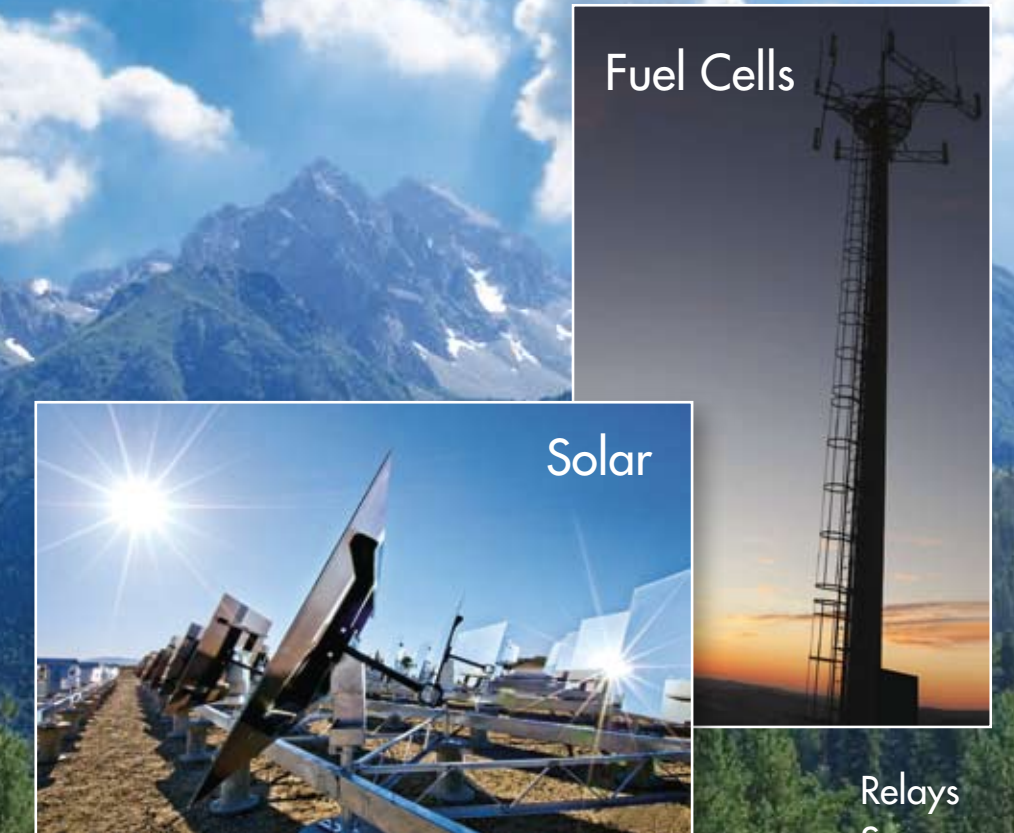
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# Omron Alternative Energy Products

Fuel Cells

Solar



Switching, sensing and other products  
for the Alternative Energy Market

Relays  
Sensors  
Switches

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# Solar Power

## Concentrating Solar Power (CSP)



Photo courtesy of eSolar

### Sealed Detection Switches



**D2SW**      **D2HW**      **D2VW**

Sealed snap-action switches are available with a variety of ratings, actuators and termination options. These models are, rated to IP67 and IP50, are suitable for use in "wet" locations.

- D2SW** Contact ratings of 3A @ 125 VAC or 0.1A @ 30 VDC
- D2HW** Contact ratings of 0.1A @ 125 VAC to 2A @ 12 VDC
- D2VW** Contact ratings of 5A @ 250 VAC or 0.1A @ 30 VDC

Omron Electronic Components LLC provides a variety of advanced switching and sensing component solutions for the Solar Power Industry. Whether you are designing for the Consumer electronics, Mobile Power, Residential or Commercial Markets, Omron has a solution for you. Through a mix of manufacturing and technological skills Omron makes reliable, replicable electromechanical components. Providing global and local networks of technical and sales support from design through delivery.

## DC Charge Controller

### DC Power Relays



**G9E-B**      **G9E-A**      **G9E-C**

### DC Power Relay G9E-B,A,C

**Features:**  
Sealed switching, gas cooled arc, magnetic arc control, safe, reliable design.

- Switching capacities: 25A @ 250 VDC, 60A @ 400 VDC, 200A @ 400 VDC, respectively in order as appearing above.

**Benefits:**

Space saving, no arc space required, quite – 50% lower operating noise, compact – 70% less volume, power saving – 30% less power consumption.



Solar Charge Controller\*



Charge Controller\*

## Photovoltaic (PV)



### Power PCB Relays

(Homes, Small Building) 1-10kW



**G4A**      **G8P**      **G7L**

**G4A**  
High Capacity, 20 A Relay @ 250 VAC 100K Cycles. UL, CSA, and VDE approved.

**G8P Power PCB**  
Power Relay, Wide Operating Temperature, PCB or Flange Mount, up to 30A Switching Capacity.

**G7L**  
Panel Mount type switches 30A 1FormA and 25A 2FormA Resistive @220 VAC while PCB type switches 20A.



PV Inverter\*

\*Photo's courtesy of Xantrex

## Concentrated Photovoltaic (CPV)



PV Inverter\*

## Industrial PV Inverter

### Industrial Relays

30kW – Up



**G7J**      **G7Z**      **J7KN**

**G7J Relay**  
A High-capacity, High-dielectric-strength, Multi-pole Relay Used Like a Contactor, 25A @ 220 VAC.

**G7Z Relay**  
Multi-pole Power Relay for Contactor Current Range Capable of Carrying and Switching 40 A at 440 VAC.

**J7KN Relay**  
3-4 Pole Motor Contactors with power range from 4kW to 110kW.

## High Concentrated Photovoltaic (HCPV)



### Limit Switches



**D4A**

**D4A**  
Die-cast Limit Switch offering a variety of actuator options. Includes double seal model. Capable of Switching 10A @ 480 VAC.