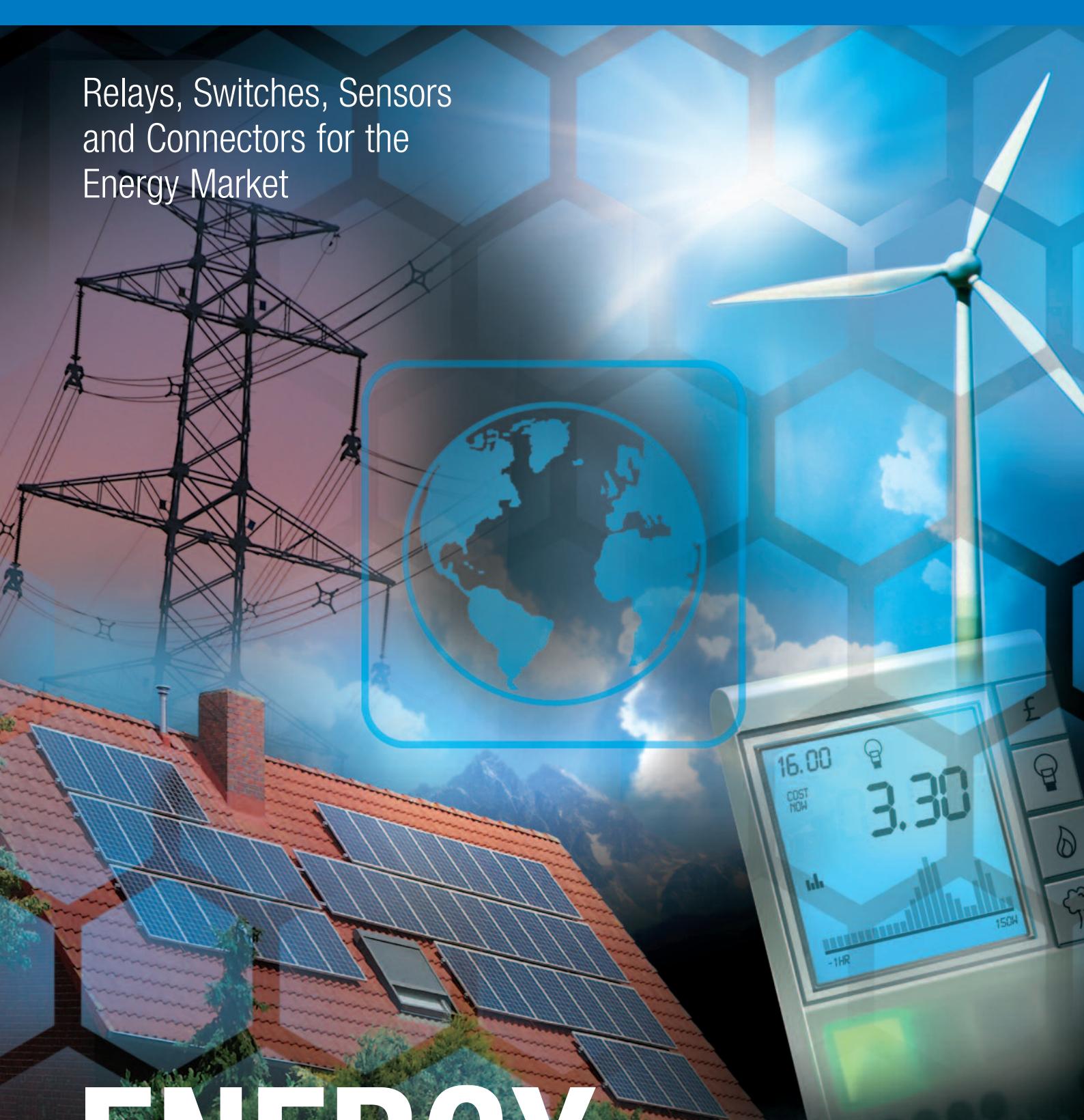


Relays, Switches, Sensors  
and Connectors for the  
Energy Market



# ENERGY

Generation, Measurement and Management

## Leading-edge Technology for the Energy Market

Omron Electronic Components Europe B.V. provides a variety of advanced switching, interconnection and sensing component solutions with a proven track record in performance and durability. Whether you're designing for the consumer, mobile power, residential or commercial markets in Solar and Wind power, Metering, or Energy Management, Omron has a solution. With our mix of technology and manufacturing skills, together with a global and local sales support network, we are ready to meet your needs.

### Competencies

- Materials
- Precision Replication & Assembly
- Stamping & Moulding
- Integration of Active Elements
- Packaging

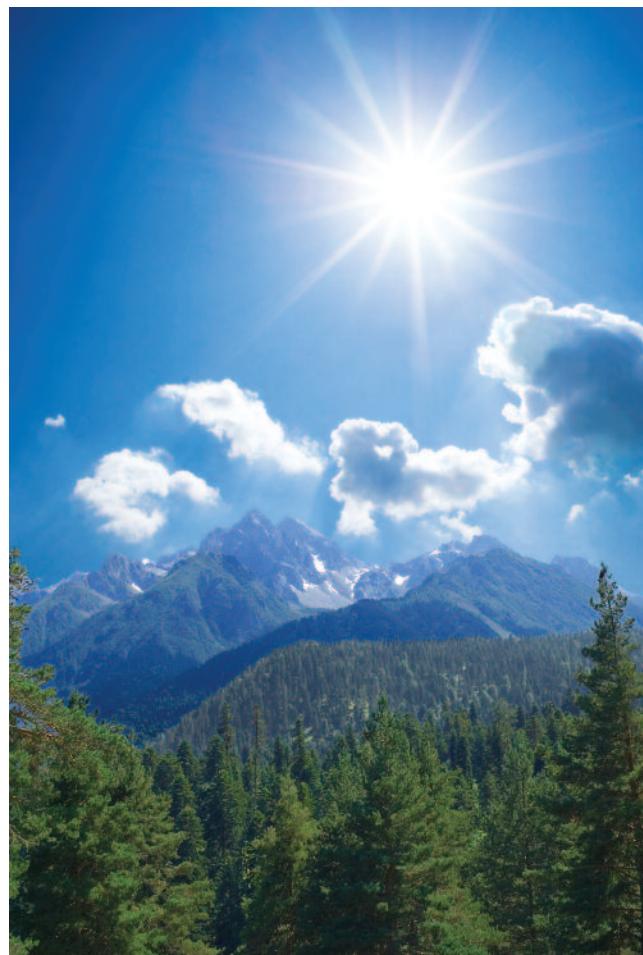
### Technologies

- Switching
- Sensing
- Micro Lens Arrays
- Magnetic Actuators
- Nano Machining
- Micro Electromechanical Systems
- Solid State Components



Omron designs and manufactures a wide range of high quality, high performance components utilising latest technologies for the Energy Market.

Products include relays, switches, connectors and sensors.





## Energy Generation Solar Power



### DC Charge Controllers DC Power Relays



**G9E-B**



**G9E-A**



**G9E-C**

#### Features:

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

- Switching capacities (respectively): 25A at 250 VDC, 60A at 400 VDC, 200A at 400 VDC.

#### Benefits:

Space saving, no arc space required, quiet – 50% lower operating noise, compact – 70% less volume, power saving – 30% less power consumption than a standard contactor.

## Solar Charge Controller



# Generation, Measurement and Management



## Power PCB Power Relays

(Homes, Small Buildings) 1–10kW



### G4A

High capacity, 20 A Relay at 250 VAC 100k cycles. UL, CSA, and VDE approved.

### G7L

Panel mount type switches 30A 1FormA and 25A 2FormA Resistive at 220 VAC while PCB type switches 20A.

### G8P

Power relay, wide operating temperature, PCB or Flange Mount, up to 30A switching capacity.

### G2RG

1.5mm clearance between contact terminals of the same polarity. Meets the requirements of European UPS standards.

## Sealed Detection Switches



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



## PV Inverter

### D2SW

Contact ratings of 3A at 125 VAC or 0.1A at 30 VDC.

### D2HW

Contact ratings of 0.1A at 125 VAC to 2A at 12 VDC.

### D2VW

D2VW Contact ratings of 5A at 250 VAC or 0.1A at 30 VDC.

## Wind Power



## Industrial PV Inverter General Purpose Relays

30kW – Up



**G7J**



**G7Z**



**J7KN**

### **G7J Relay**

A High-capacity, high-dielectric-strength, Multi-pole relay used like a contactor, 25A at 220 VAC available in PCB and screw terminals.

### **G7Z Relay 4A**

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.

## PCB Power Relays



**G5RL**



**G2RL**



**G4W**

### **G5RL**

Low profile – 15.7mm in height. High inrush and silent model available.

### **G2RL**

High sensitivity (250mW) and high capacity (16A) models available.

### **G4W**

High impulse withstand voltage 10kV with 4kV dielectric strength ideal for power supply switching.

# Generation, Measurement and Management

## Energy Measurement



### G6C

Compact, low power consumption (200mW) relay. Unique moving loop armature reduces relay size, magnetic interference and contact bounce.

### G5Q-EU

Compact, high isolation relay.

### G6B

Sub-miniature relay that switches up to 5A.



### FPC Connectors

Wide range of FPC connectors including the unique Rotary Back-Lock system for reliable connection.

## Energy Management



### MEMS Flow Sensors

#### Bypass Style Flow Sensors

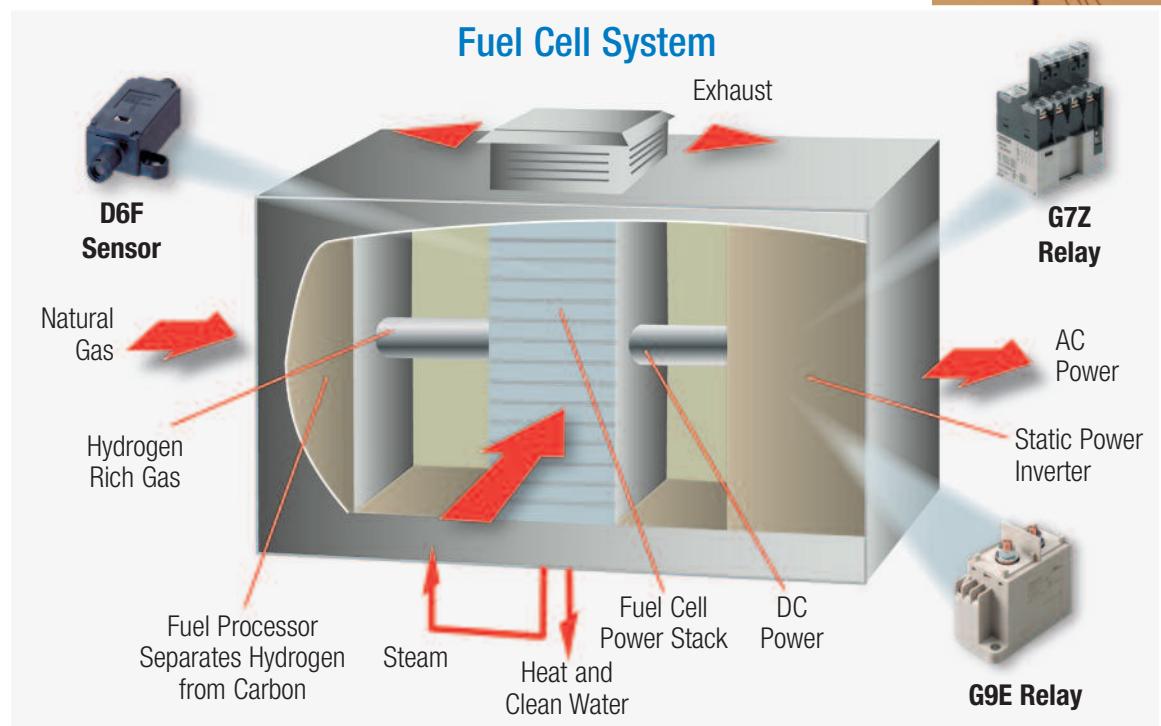
##### D6F-P

1 LPM Flow Sensors with integrated DSS (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.



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