

# FUJITSU COMPONENTS presents

## *Solar relays for a sunny future*

**Hoofddorp, June 2009** – Fujitsu Components endeavours to reduce the environmental impact of the products throughout the product lifecycle. At the same time Fujitsu designs its products for integration in environmental improving appliances. Fujitsu Components' product range contains power relays that are recommended to be used in solar energy systems.



### DC solar relays

Fujitsu is pleased to present the FTR-J2 and FTR-K2W relay as a solution to enable remote switching and emergency cut-off of the solar panel. These relays, connecting the solar panel to the converter, are able to switch DC power.

The **FTR-J2** relay is capable of switching 450VDC, 10A. Even though the relay's capability is to switch these high voltages, the relay dimensions are relatively small. The relay measures just 24mm(L)x23.5(W)x27mm(H). To be able to switch high DC voltages despite small dimensions, Fujitsu has designed two strong magnets within the relay to extinguish the severe breaking arc.

The FTR-J2 is a powerful, compact and reliable solution for solar appliances that need to switch high DC voltage.

The brand-new **FTR-K2W** DC relay is also suitable to be integrated in the converter of solar systems to switch on/off the DC voltage generated by the solar panel. The main feature of this relay is its big contact gap of >6mm. Furthermore the relay is capable of switching 60V DC, 30A.

### AC solar relays

Fujitsu's **FTR-K2G** and new developed **FTR-K3-WG** and **FTR-F4G** relays can function as interface between the solar converter and the power grid.

These AC relays can be used in compliance with DIN VDE 0126-1-1. According to this safety standard the circuit break function between the solar converter and the power grid must have a contact gap  $\geq 1.5$ mm at each pole.

The FTR-F4G with relatively lower power switching capabilities is recommended for the small solar panel systems, where the FTR-K2G is most useful for relatively large solar panel systems.

Solar relays AC - big contact gap	FTR-F4G	FTR-K3-WG	FTR-K2G
Dimensions			
W x L x H (mm)	12.7 x 26.7 x 25.2	15.7 x 30.1 x 23.3	16.0 x 35.0 x 28.0
Contact rating	5A, 227VAC / 30VDC	25A, 250VAC	20A, 250VAC
Contact form	2 a	1 a	1 a
Nominal coil power (DC)	0.8 W	0.78 W	1.1 W
Special features	* Contact gap 1.5 mm * TV3 rated	* Contact gap 1.5 mm	* Contact gap 3 mm * TV-6 rated

Fujitsu Components is pleased to offer multiple solutions that are suitable for integration in solar appliances and in this way contribute to a cleaner environment.

More information about Fujitsu Components' solar relays will be available soon on [emea.fujitsu.com/components/](http://emea.fujitsu.com/components/).

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