



PHOTOVOLTAIC

Photovoltaic, or PV for short, is a technology that converts light directly into electricity.

Photovoltaic is also the field of study relating to this technology and there are many research institutes devoted to work on photovoltaic.

Due to the growing need for solar energy, the manufacture of solar cells and solar photovoltaic array has expanded dramatically in recent years. Photovoltaic production has been doubling every two years, increasing by an average of 48 percent each year since 2002, making it the world's fastest-growing energy technology. At the end of 2007, according to preliminary data, cumulative global production was 12,400 megawatts.

Financial incentives, such as preferential feed-in tariffs for solar-generated electricity and net metering, have supported solar PV installations in many countries including Germany, Japan, and the United States.

SOLUTIONS FOR PHOTOVOLTAIC INSTALLATIONS

DF ELECTRIC launch a new photovoltaic modular fuse holder and fuse Pv for photovoltaic applications.

The first feature that this news products offers, is the assigned voltages, in one hand the fuse holder with 1000 V DC and in the other hand the fuse with 900 V DC. They have been developed to offer a compact, safety and economic protection solution in photovoltaic installations where due to the increase of the power and technologic evolution, no-load voltages up to 900V DC

The fuses can be also used meet the requirements for instruments (multimeters) and traction equipment auxiliary circuits.



FUSE LINKS

Made with ceramic tube with high withstand to internal pressure and thermal shock, that allows a high breaking capacity in a reduced physical space.

Contacts are made in silver plated copper and melting elements are made in pure silver in order to avoid the aging and thus keep unalterable the electric characteristics.

TECHNICAL DATA

Size	10x38
Rated voltage	900V DC
Rated current	4A → 20A
Rated breaking capacity	30 kA (L/R = 2 ms)
Class	gR*

*protection against overload and short-circuit

RATED CURRENT	REFERENCE	POWER DISSIPATION (W@0,8In)	POWER DISSIPATION (W@In)	I ² t PREARcing (A ² s)	I ² t TOTAL 900V (A ² s)
4	491605	1,10	1,85	4	15
6	491610	1,45	2,50	9	42
8	491615	0,95	1,60	12	49
10	491620	1,25	2,15	19	69
12	491625	1,40	2,40	28	97
16	491630	1,80	3,10	48	178
20	491635	2,20	3,80	69	248

STANDARD

2002/95/EC RoHS



FUSE HOLDERS

Material body and handle: thermoplastic high resistance to the temperature,
 Flammability: UL 94= V0 a 1,6mm
 Glow Wire Test: (IEC 60695)=960 °C a 1,6mm
 Colour: = Ral 7035
 Material of contacts: electrolytic silver plated copper.

TECHNICAL DATA

Rated current/voltage	32A-690V AC / 1000V DC
Protection index	IP20
Opening degree on charge	AC-21B 690V y DC20B 1000V DC
Maximum rated power acceptance	4W
Service temperature	-20 °C 70 °C
Store temperature	-40 °C 80 °C
Correction of available current based of temperature	20 °C → 1 30 °C → 0,95 40 °C → 0,90 50 °C → 0,80
Connection 1 wire	SOLID → 0,75...25 mm ² (AWG 18...4) STRANDED → 0,75...16 mm ² (AWG 18...6)
Maximum tightening torque up to	2,5 Nm
Screw	GROOVE + DIN 7962 (h)
Fixing for simmetrical rail DIN STANDARD 46277/1/3 (EN 50022)	
Weight	REF. 481033 - 1 POLE 62 gr REF. 481233 - 2 POLES 124 gr

STANDARD

IEC/EN 60269 | IEC/EN 60947 | 2002/95/EC RoHS



Head Office & Factory

Silici, 67-69
08940 CORNELLA DE LLOBREGAT
Barcelona - Spain
Tel. (+34) 93 377 85 85
Fax (+34) 93 377 82 82
www.df-sa.es

National Sales

Tel. (+34) 93 475 08 64
Fax (+34) 93 480 07 76
comercial@df-sa.es

Export Sales

Tel. (+34) 93 475 08 64
Fax (+34) 93 480 07 75
export@df-sa.es