THERMAL TECHNOLOGY®

CARBON FIBER HEATING

HEATING ALUMINUM SHEET FOR PHOTOVOLTAIC PANNELS

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CHARACTERISTICS

After snowfall, a layer of snow is deposited on photovoltaic panels, decreasing their performance until total shutdown. Once installed, heating sheet from Thermal Technology does not permit snow accumulations, preventing the obscuration of the panels.

NO HARMFUL ELECTROMAGNETIC EMISSIONS

FUNCTIONAL CHARACTERISTICS

Heating sheets can be easily installed. They are composed of double layer of adhesive aluminum and are bonded on the panel's rear side. May be connected to each other up to seven heating sheets, using bipolar connectors. During snowfalls the heating is turned on, in order to prevent snow accumulation, and it is turned off only after entire release of the panel's surface from snow. If outside temperature is higher than 10°C the device should not be turned on.

CARBON FIBER

Carbon fiber is flexible, does not oxidize, does not produce harmful electromagnetic fields during electricity flow, has no dimensional variations, as the temperature changes, or deterioration of ohmic values. No wearing and no maintenance necessary. Its high resistivity permits significant energy savings.

REMOVAL OF THE PROTECTION FILM FROM ADHESIVE ALUMINIUM

COUPLING OF A MODULE - MODULE CONNECTOR

HEATING SHEET APPLIED ON THE REAR SIDE OF A PHOTOVOLTAIC PANEL

T751 TEMPERATURE CONTROLLER

MATERIAL STRATIFICATION

Stratification from outside:

- External side is made of adhesive aluminum of 0,5 mm
- Carbon fiber resistors
- Inner side made of adhesive aluminum of 0,5 mm

TEMPERATURE CONTROL

Temperature control is not integrated. It can be realized by installing NTC 10 K temperature probe in combination with T751 temperature controller, enabling and disabling power ignition until the achievement of desired temperature.

ACCESSORIES

T751 code – Temperature control relay of 16A DIN guided (without probe). T803 code – Temperature probe NTC10K equipped with cable of 1,50 m.

MODEL	POWER SUPPLY	POWER	PROTECTION DEGREE	TEMPERATURECONTROL	CABLE AND CONNECTORS	DIMENSIONS
FT1E-ALU	230 Vac 50/60 Hz max 8A	180W/m²	IP67	Through electronic control (see accessories)	Power cable H07RNF, 4,00 m length, IP68 female connector and special cap for the last free connector	on demand

CONFORMITY

CE

This product is manufactured in conformity with the electrical safety standards set by Low Voltage Directive 2014/35/EU. This product is in conformity with Electromagnetic Compatibility Directive 2014/30/EU, concerning the standards for electromagnetic emissions.

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