A-Z TRADERS

Designed and Manufactured in the EU

Switchboards for Photovoltaics

Intelligent Control Systems

Charging Stations for Electric Vehicles

Safety Components

Surge Protectors

Monitoring Systems

A-Z TRADERS www.AZTRADERS.eu info@aztraders.eu +420 605 457 572

SET: Switchboard R-DC1T2 + Surge arrester DC-2

R-FVE-DC1T2+D-C2

DEAL: Get the R-DC1T2 switchgear in a bargain set with a DC-2 arrester! A complete certified switchboard protecting the DC line by max. voltage 1000 V. This type is intended for surface mounting and includes a two-pole fuse disconnector and a surge arrester to protect one string of the photovoltaic ...

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PRODUCT DESCRIPTION

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A complete certified switchboard protecting the DC line by max. voltage 1000 V. This type is intended for surface mounting and includes a two-pole fuse disconnector and a surge arrester to protect one string of the photovoltaic system. The individual components placed on the DIN rail are already interconnected, which ensures time savings during assembly.

Due to the normative obligation to place class 1 surge arresters near the discharge of string wires into the building, we are introducing a new model series of SPD units for mounting on the supporting structure of the photovoltaic panels themselves.

The construction itself is made of aluminum alloy (the same material as the supporting profiles of the PV panels - there is no risk of electrochemical corrosion) with hermetically sealed internal circuits in polyurethane material with fire-suppressing internal filler, taking into account the weather conditions and the method of assembly.

With regard to easy implementation into a string, the unit is realized as pass-through - both poles of the string are connected to the unit and both of them also exit. The connection is realized by classic MC4 connectors (at the input with an integrated fuse) and wires with cross-sections of 6 mm^2 (in some versions also 10 mm^2) with double insulation and color resolution.

The connection of the PE wire or the connection to the LPS elements is solved on the box's own chassis using an M10 (M8) screw through a crimped eye on a cable wire >16 mm^2 or directly via a T-bolt by connecting to the supporting structure/LPS conduit, or in combination.

The SPD unit itself is of class T1 + T2, where, due to the above-standard leakage resistance (12/25 kA), application is also possible to centers with less than 4 discharges (according to ČSN EN 51643-32).

Due to the specific design and location, it is necessary to measure the residual current at max. operating voltage.

If it is higher than the maximum value specified by the manufacturer, it is necessary to replace the entire SPD module. An indication of a fuse break is the absence of voltage on the string circuit behind the SPD module.