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www.AZTRADERS.eu



info@aztraders.eu



+420 605 457 572

A-Z ROOF SPD T1+T2 2+0 1010 VDC



DC-2

Due to the normative obligation to place class I 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 ...

View product

Price after registration

PRODUCT DESCRIPTION

Due to the normative obligation to place class I 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 made with 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 conductor 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 cabled conductor >16 mm² or directly via a T-screw by connecting to the support structure/LPS lead, 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.

Property	Value
Maximum operating DC voltage between L+ and L- (L+-and PE)	1010 V
_{in} (8/20 ⊠s)	L+ or L- /PE 20 kA L+- /PE 40 kA
I _{max} (8/20 ⊠s)	L+ or L- /PE 50 kA L+- /PE 100 kA
I _{mp} (10/350 ⊠s)	L+ or L- /PE 12.5 kA L+- /PE 25 kA
Dimensions	234x126x34.4mm

Connecting wires Length: approx. 25 cm; cross section: 6/10 mm²; cross section: 6/10 mm²; connectors: Mc2 male/female with integrated fuse Location Outdoor - mounting on the PV panel support system Rated short-circuit current I sepv 10kA External disconnectors fuse integrated in MC4 < 30 A at input Indication of SPD impact output voltage drop to 0 V Residual current max 50 &A Classification according to ČSN EN 61643-11 ed. 2 and ČSN T1+12 Suitable for network DC Rated load current I sepv Type 1 - 30 A Type 2 - 30 A Type 2 - 30 A Type 3 - 80 A Short circuit resistance I sepv 10kA Voltage protection level at In U p < 2.3 kV Response time t k < 25 ns Case material Aluminum alloy Enclosure protection level IP67 Working temperature Ø -40 ÷ 85 °C Humidity range m 0 ÷ 100% Connector wire cross-section Cross section: 6 mm² / 10 mm² (depending on version) Earth terminal tightening torque According to the M8/10 screw used Mounting method FV Alu profile Working position Any SPD failure mode OCFM <	Property	Value
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Interchangeable design NO	Working position	Any
	SPD failure mode	OCFM
Lifespan > 15 years	Interchangeable design	NO
	Lifespan	> 15 years