

A-Z TRADERS

In-house production and development in the Czech Republic



Rozváděče
pro fotovoltaiku



Inteligentní
regulace



Dobíjecí stanice
pro elektromobily



Zkratovače



Svodiče přepětí



Monitoring

 A-Z TRADERS

 www.AZTRADERS.eu

 info@aztraders.eu

 +420 605 457 572

A-Z ROOF SPD2 T1+T2 2+4 1010 VDC



DC2 - 4+2

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 ...

[View product](#)

[Price after registration](#)

PRODUCT DESCRIPTION

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 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 $>16 \text{ mm}^2$ 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
I_n (8/20 μ s)	L+ or L- /PE 20 kA L+- /PE 40 kA
I_{max} (8/20 μ s)	L+ or L- /PE 50 kA L+- /PE 100 kA
I_{mp} (10/350 μ s)	L+ or L- /PE 12.5 kA L+- /PE 25 kA
Dimensions	234x126x34.4mm

Property	Value
Connecting wires	Length: approx. 25 cm; Cross-section: 6/10 mm ² ; Connectors: MC4 male/female with integrated fuse
Location	Outdoor - installation on the supporting system of PV panels
Rated short-circuit current I_{scpv}	10 kA
External disconnectors	fuse integrated in MC4 < 30 A at input
Indication of SPD effect	output voltage drop to 0 V
Residual current	max 50 mA
Classification according to ČSN EN 61643-11 ed. 2 and ČSN EN 61643-31	T1+T2
Suitable for network	DC
Rated load current I_L	Type 1 - 30 A Type 2 - 30 A Type 3 - 80 A
Short circuit resistance I_{scpv}	10 kA
Voltage protection level at In U_p	< 2.3 kV
Response time t_A	< 25 ns
Case material	Aluminum alloy
Degree of protection of the cover	IP67
Working temperature \varnothing	-40 ÷ 85 °C
Humidity range R_H	0 ÷ 100%
Cross section of the connector wire	Cross-section: 6 mm ² / 10 mm ² (according to design)
Earth terminal tightening torque	According to the M8/10 screw used
Method of assembly	FV Alu profile
Working position	Any
SPD fault mode	OCFM
Interchangeable design	NO
Service life	> 15 years