

SAPV100T12 – SAPV100T12R



					SAPV100T12	SAPV100T12R
Standards						
Applicable Standards					IEC 61643-31 / EN 50536-11	
Technical data						
Maximum continuous operating voltage	(DC+) - PE, (DC-) - PE	U_{CPV}	V	1000		
	(DC+) - (DC-)	U_{CPV}	V	1000		
Nominal discharge current (8/20 μ s)		I_n	kA	20		
Impulse Discharge Current (10/350 μ s)		I_{imp}	kA	6,25		
Total discharge current (10/350 μ s)		I_{tot}	kA	12,5		
Total discharge current (8/20 μ s)		I_{tot}	kA	40		
Maximum discharge current (8/20 μ s)		I_{max}	kA	40		
Voltage protection level	(DC+) - PE, (DC-) - PE	U_p	kV	4		
	(DC+) - (DC-)	U_p	kV	4		
Response time		t_A	ns	< 25		
Short-circuit current rating		I_{scpv}	kA	10		
Number of ports		Nr		1		
Functional data						
IEC/EN category	Type / Class			1+2 / I+II		
Protective elements				High energy MOV		
Mechanical characteristics						
Terminal screw torque		M_{max}	Nm	4,5		
Conductor cross section (max)		Solid, Stranded	mm ²	35		
			AWG	2		
			mm ²	25		
			AWG	4		
Mounting				35 mm DIN rail, EN 60715		
Degree of protection				IP20 (built-in)		
Housing material				Thermoplastic Extinguishing Degree UL 94 V-0		
Thermal Protection				Yes		
Operating State / Fault Indication				Green ok / Red defect		
Remote Contacts	Switching capacity	AC	V	-	250 / 125	
			A	-	0,5 / 0,2	
			V	-	250 / 75	
			A	-	0,1 / 0,5	
	Conductor cross section (max)		mm ²	-	1,5	
			AWG	-	16	
Dimensions (W-D-H)			mm	54 x 81 x 90	54 x 81 x 96	
Weight			g	44	44,7	
Ambient conditions						
Permissible operating humidity			%HR	5 ÷ 95		
Operating temperature		T_a	°C	-40 ÷ +70		
Atmospheric pressure and altitude			k Pa	80 ÷ 106		
			m	-500 / 2000		
Installation				Indoor		

**Description**

Surge Protective Device (SPD) for PV applications, DC side, T1+2/ Class I+II (IEC 61643-31), of the voltage limiting type with metal oxide varistor technology (MOV) associated with a thermal disconnection device (overtemperature).

Characteristics

- It allows replacement of plugs with the system powered on.
- Local indicator of the operating status conditions.
- Remote signaling of the operating conditions (SAPVxxxR version).
- Internal switch to disconnect the SDP at the end of its lifetime.
- Fixing on DIN rail.

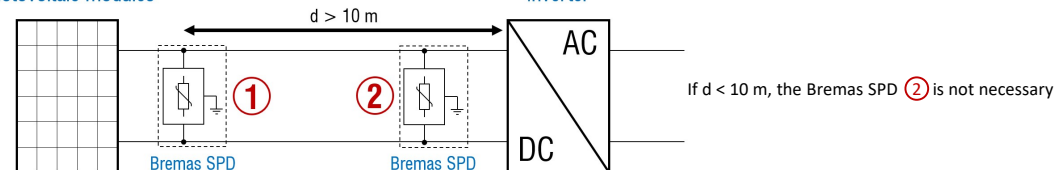
Application

Suitable for protection against low-intensity direct lightning strikes and induced overvoltages. Typically installed inside string boxes and/or combiner boxes and/or inverter for PV applications.

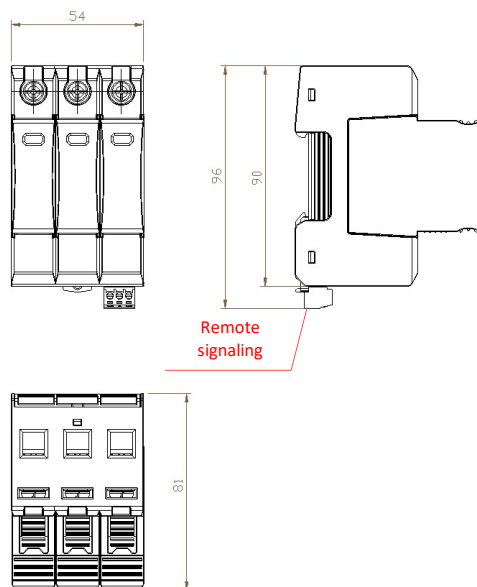
Mounting tips

Photovoltaic modules

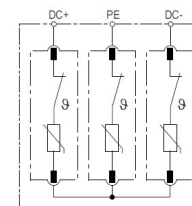
Inverter

**Dimensions**

Dimensions in mm

**Electrical circuit**

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