

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		
	Flexible		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
		DC	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

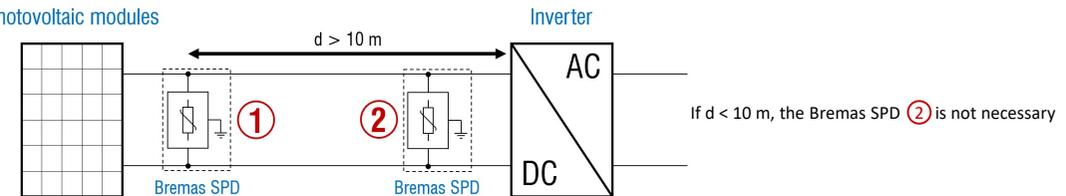
- It allows replacement of plugs with the system powered on.
- Local indicator of the operating status conditions.
- Remote signaling of the operating conditions (SAPVxxxR version).
- Internal switch to disconnect the SDP at the end of its lifetime.
- Fixing on DIN rail.

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.

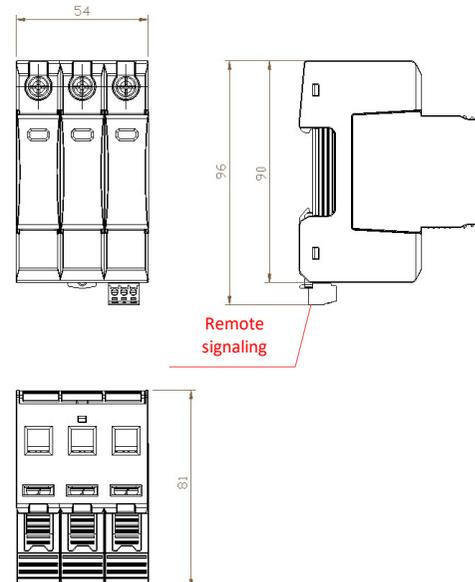
Mounting tips

Photovoltaic modules



Dimensions

Dimensions in mm



Electrical circuit

