

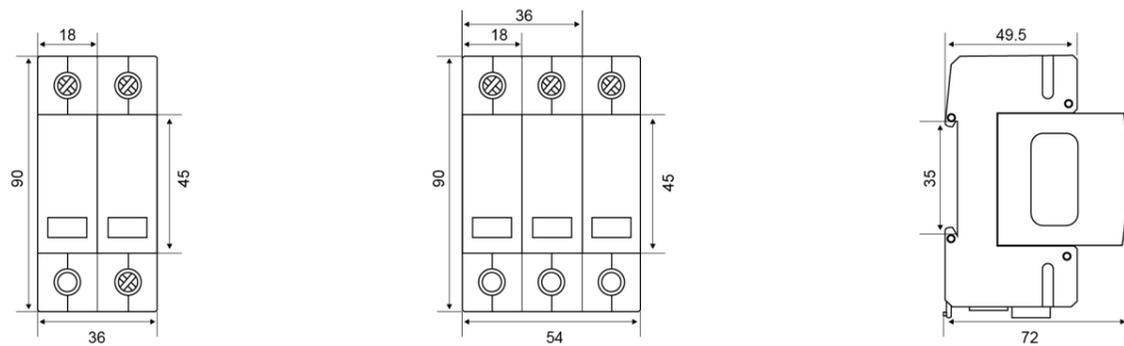
## MODEL AND SIGNIFICANCE

S	UP	2	-	H/1	/	□	X
Enterprise code	Surge protector device	Design Number		H:275V/500VDC H1:1000VDC H2:1200VDC H6:600VDC H8:800VDC		Maximum accommodating40kA	Remote sensing

## GENERAL PARAMETERS

- Suitable for protection of electrical installations against [transient overvoltage] and [short-current] [lightning strikes] [over-heat]
- Plug-in module design
- Indication window and optional remote-signaling contact helps users to know the status of device

## DIMENSIONS (mm)



## DC surge protector

- SUP2H-PV/500VDC/2P
- SUP2H6-PV/600VDC/2P
- SUP2H8-PV/800VDC/2P
- SUP2H1-PV/1000VDC/3P
- SUP2H2-PV/1200VDC/3P
- SUP2-PV/1500VDC/3P

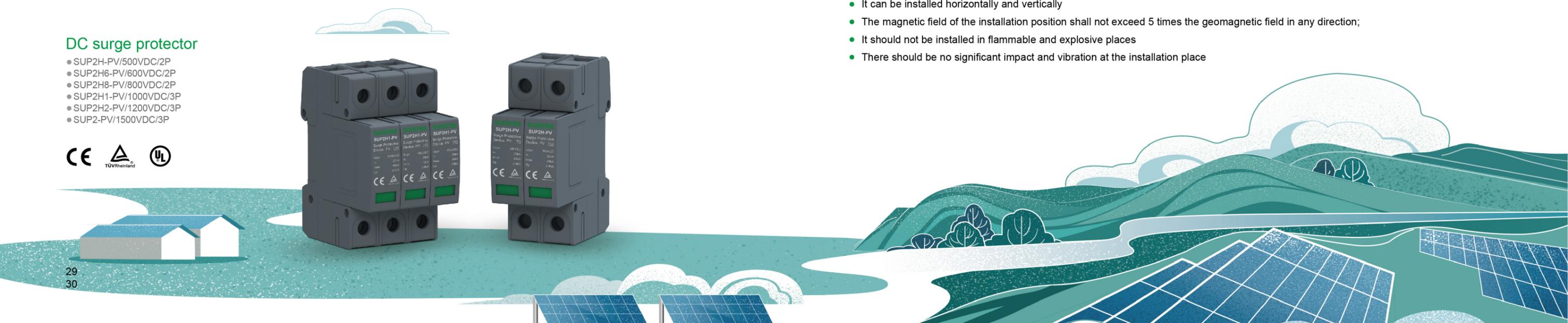


## ELECTRICAL PARAMETERS

Product Model	SUP2H-PV	SUP2H6-PV	SUP2H8-PV	SUP2H1-PV	SUP2H2-PV	SUP2-PV
Rated Operational Voltage/Ue(V)	48/110/130/150/220 275/300/360/500VDC	600VDC	800VDC	1000VDC	1200VDC	1500VDC
In(kA)8/20	20					
I <sub>max</sub> (kA)8/20	40					
I <sub>scpv</sub>	100A					
Pole	2P			3P		
Up(kV)	0.6/1.2/1.6/2/2.6/2.8	2.8	3	3.6	4	5
Single P size	18*90*72					
Response time	≤25					
Experimental classification	T2 Class					
SPD Type	Pressure limiting type					
Protection Level	IP20					
Insulation shell material	PBT/PA66					
Flame retardant grade	Compliant with UL94 V0					
Mounting	Easy installed and fastening onto 35mm device rail(DIN)					
Ambient Temperature	-40℃~ +70℃					
Window indication	Normal: green; Failure: red					
Inspection standards	GB/T18802.2011 IEC61643-31 UL1449 ed2 EN61643-31					

## INSTALLATION PRECAUTIONS

- In a medium without explosion risk and free of gases and dust(including conductive dust) sufficient to corrode metal and destroy insulation
- In the condition with no snow erosion
- It can be installed horizontally and vertically
- The magnetic field of the installation position shall not exceed 5 times the geomagnetic field in any direction;
- It should not be installed in flammable and explosive places
- There should be no significant impact and vibration at the installation place



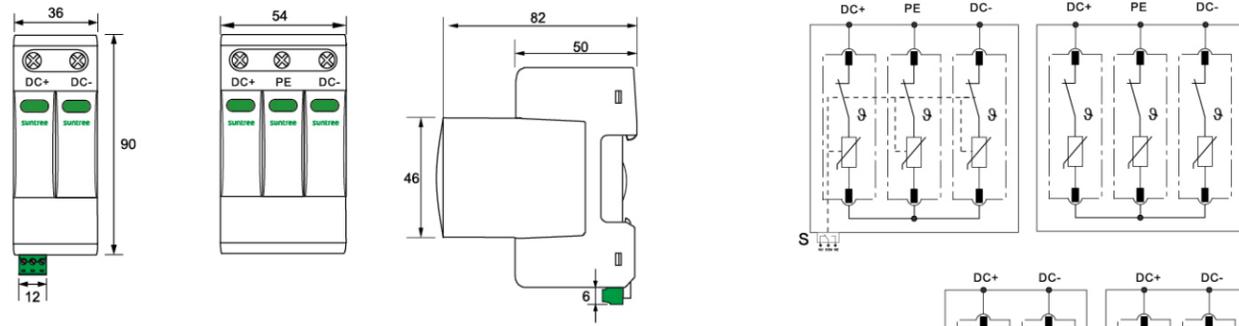
## MODEL AND SIGNIFICANCE

<b>S</b>	<b>UP</b>	<b>2</b>	<b>-</b>	<b>DC</b>	<b>/</b>	<b>□</b>	<b>3</b>	<b>1000</b>	<b>X</b>
Enterprise code	Surge protector device	Design Number	PV code DC dedicated	Maximum Discharge Current 50kA(T2)7kA(T1)	Number of Poles	Rated Voltage 500VDC 600VDC 800VDC 1000VDC 1200VDC 1500VDC	Remote sensing		

## CLASS I•CLASS II•TYPE1•TYPE 2

- LOCATION OF USE: **STRING BOX,INVERTER**
- MODE OF PROTECTION: **(DC+)- PE, (DC-)- PE, (DC+)- (DC-)**
- SURGE RATINGS: **ITOTAL = 12.5kA (10/350) In= 20kA (8/20) Imax=50kA (8/20)**
- IEC/EN/UL CATEGORY: **CLASS I+II / TYPE 1+2**
- PROTECTIVE ELEMENTS: **HIGH ENERGY MOV**
- HOUSING: **PLUGGABLE DESIGN**
- COMPLIANCE: **IEC 61643-31/EN 61643-31/UL 1449 4TH EDITION**

## DIMENSIONS - INTERNAL CONFIGURATION



- LEGEND**
- PE PROTECTIVE EARTH
  - S SIGNALING CONTACTS (OPTION)

## DC SURGE PROTECTOR

• SUP2-DC/1500VDC



## ELECTRICAL PARAMETERS

IEC Electrical						
Maximum Continuous Operating DC Voltage	500V	600V	800V	1000V	1200V	1500V
In(kA)	20	20	20	20	20	20
I <sub>max</sub> (kA)	50	50	50	50	50	50
I <sub>imp</sub> (kA)	6.25	6.25	6.25	6.25	6.25	6.25
I <sub>total</sub> (kA)	12.5	12.5	12.5	12.5	12.5	12.5
Numbers of poles	1P/2P	1P/2P	1P/2P	3P	3P	3P
Protection level (In)Up	2.8	2.8	3.0	4.0	4.4	5.0

Mechanical & Environmental		
Operating Temperature Range	T <sub>a</sub>	-40 °F to +158 °F [-40 °C to +70 °C]
Permissible Operating Humidity RH	RH	5%...95%
Atmospheric pressure and altitude		80k Pa ... 106k Pa / -500 m ... 2000 m
Terminal Screw Torque M <sub>max</sub>	M <sub>max</sub>	39.9 lbf-in [4.5 Nm]
Conductor Cross Section (max)		2 AWG (Solid, Stranded)/4 AWG (Flexible) 35mm <sup>2</sup> (Solid, Stranded)/25mm <sup>2</sup> (Flexible)
Mounting		35mm 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 (RC)		Option
RC Switching Capacity		AC: 250V / 0.5 A; DC: 250V / 0.1 A; 125 V / 0.2 A; 75 V / 0.5 A
RC Conductor Cross Section (max)		16 AWG (Solid)/1.5mm <sup>2</sup> (Solid)

## CONNECTION DIAGRAM

