

SUP2H-PV SERIES DC SURGE PROTECTOR



PRODUCT ADVANTAGES

- Plug-in module design.
- Indication window and optional remote-signalng contact helps users to know the status of device.
- Transient overvoltage protection.
- Short-current protection.
- Lightning strikes protection.
- Over-heat protection.

GENERAL PARAMETERS

S

Enterprise Code

UP

Surge Protector Device

2

Design Number

H

H:275V/500VDC
H1:1000VDC
H2:1200VDC
H6:600VDC
H8:800VDC

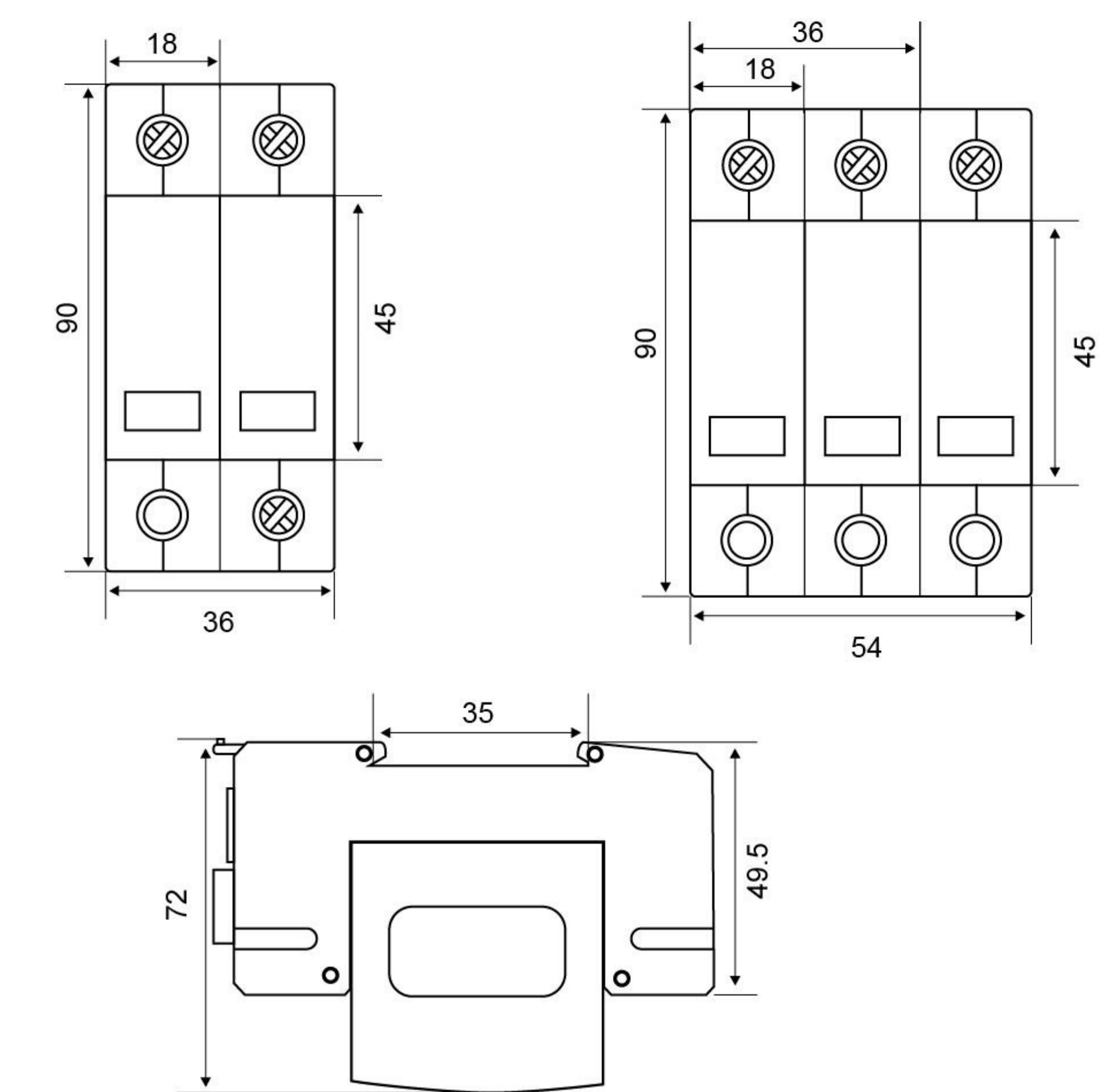
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Maximum accommodating 40kA

X

Remote Sensing

DIMENSION (MM)



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 _{max} (kA)8/20	40					
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 Temperture	-40℃~+70℃					
Window indication	Normal: green;Failure: red					
Inspection standards	GB/T18802.2011 IEC61643-31 UL1449 ed2 EN61643-31					

SUP2-DC/1500VDC

DC SURGE PROTECTOR



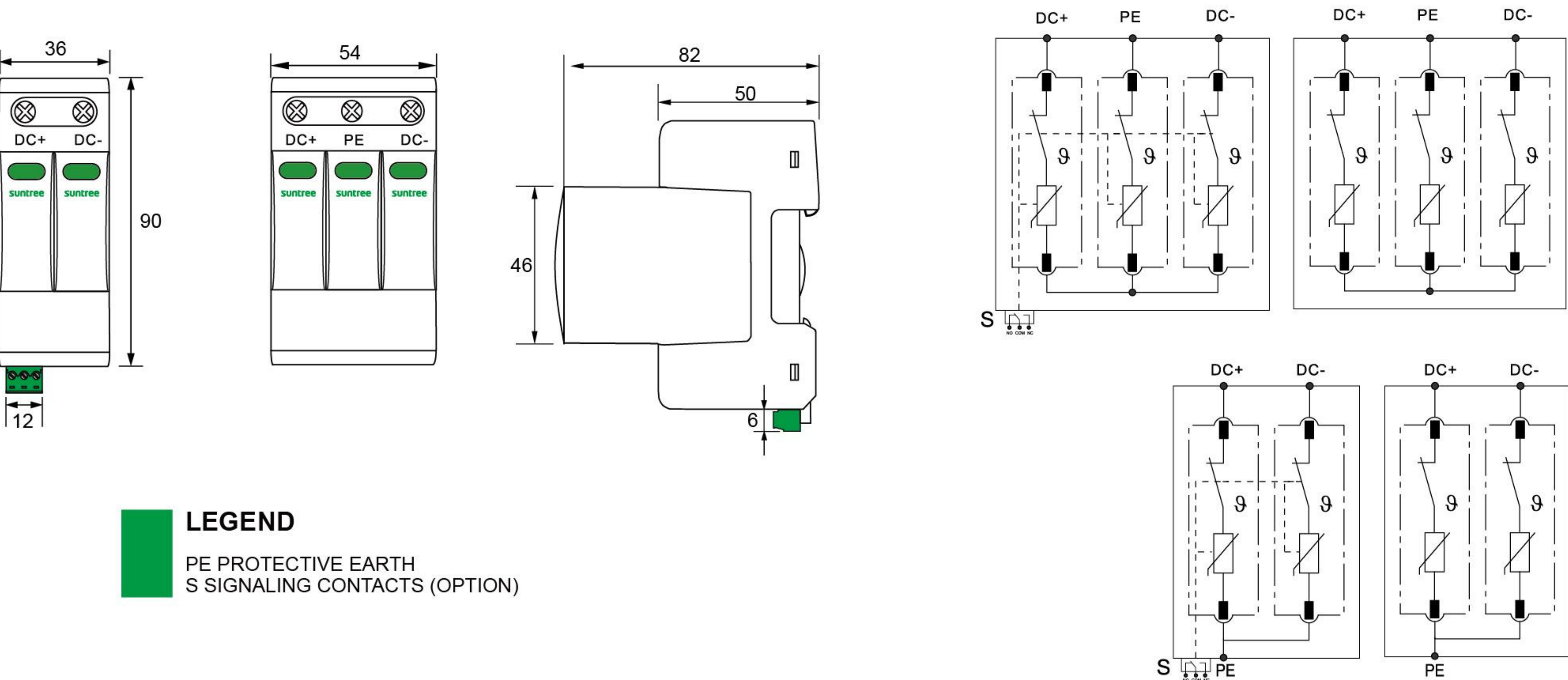
GENERAL PARAMETERS

S	UP	2	DC		3	1000	X
Enterprise Code	Surge Protector Device	Design Number	PV code DC dedicated	Maximum Discharge Current 50kA(T2) 7kA(T1)	Number of Poles	Rated Voltage	Remote Sensing

CLASS I-CLASS II-TYPE I-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 (MM)



ELECTRICAL PARAMETERS

Product Model		SUP2-DC					
Maximum Continuous Operating DC Voltage		500V	600V	800V	1000V	1200V	1500V
In(kA)		20	20	20	20	20	20
Imax(kA)		50	50	50	50	50	50
Iimp(kA)		6.25	6.25	6.25	6.25	6.25	6.25
Itotal(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
Operating Temperature Range	Ta	-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 Mmax	Mmax	39.9 lbf·in[4.5 Nm]					
Conductor Cross Section (max)		2 AWG (Solid, Stranded)/4 AWG (Flexible) 35mm² (Solid, Stranded)/25mm² (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/0.5A; DC: 250V/ 0.1A; 125 V/0.2A; 75 V/0.5A					
RC Conductor Cross Section (max)		16 AWG (Solid)/1.5mm²(Solid)					

CONNECTION DIAGRAM

