

TYPE 1/2

PV MULTIPOLAR SURGE PROTECTOR SUP2-DC/600V/800V/1000V/1200V/1500V

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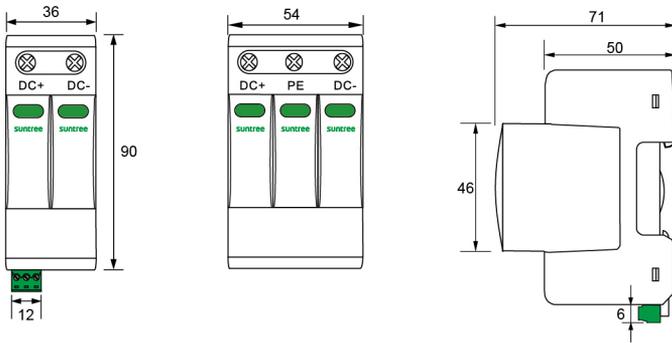
MODEL AND SIGNIFICANCE

S	UP	2	-	DC	/		3	1000	X
Enterprise code	Surge protector device	Design Number		PV code DC dedicated		Maximum Discharge Current 40kA(T2)7kA(T1)	Number of Poles	Rated Voltage 600VDC 1000VDC 1200VDC 1500VDC	Remote sensing

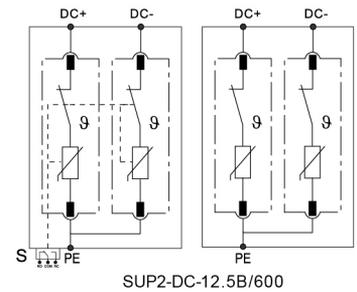
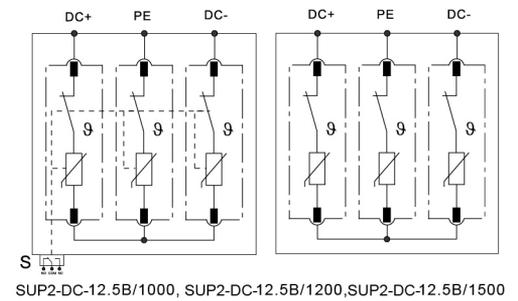
CLASS I•CLASS II•TYPE1•TYPE 2

- LOCATION OF USE: STRING BOX, INVERTER
- MODE OF PROTECTION: (DC+) - PE, (DC-) - PE, (DC+) - (DC-)
- SURGE RATINGS: ITOTAL = 12.5 KA (10/350 MS) ITOTAL = 40 KA (8/20 MS)
- 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)



PV MULTIPOLAR SURGE PROTECTOR

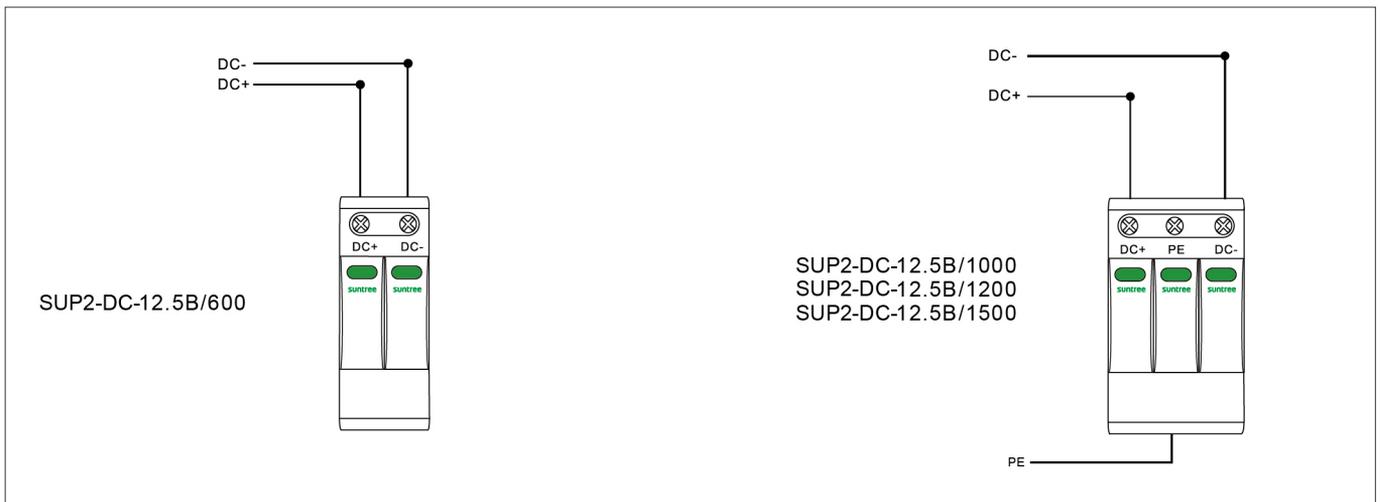
• SUP2-DC/1500VDC

TECHNICAL DATA

IEC Electrical						
Maximum Continuous Operating DC Voltage	(DC+) - PE, (DC-) - PE,(DC+) - (DC-)	U_{CPV}	600V	1000V	1200V	1500V
Nominal Discharge Current (8/20 μ s)		I_n	40kA			
Impulse Discharge Current (10/350 μ s)		I_{imp}	6.25kA			
Total Discharge Current (10/350 μ s)		I_{Total}	12.5kA			
Total Discharge Current (8/20 μ s)		I_{Total}	20kA			
Maximum Discharge Current (8/20 μ s)		I_{max}	40kA			
Voltage Protection Level	(DC+) - PE, (DC-) - PE,(DC+) - (DC-)	U_p	$\leq 2200V$	$\leq 4000V$	$\leq 4400V$	$\leq 5200V$
Response Time		t_A	< 25 ns			
Short-Circuit Current Rating		I_{SCPV}	2000A			
Number of Ports			1			

Mechanical & Environmental		
Operating Temperature Range	T_a	-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	M_{max}	39.9 lbf-in [4.5 Nm]
Conductor Cross Section (max)		2 AWG (Solid, Stranded)/4 AWG (Flexible) 35mm ² (Solid, Stranded)/25mm ² (Flexible)
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 (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 ² (Solid)

CONNECTION DIAGRAM



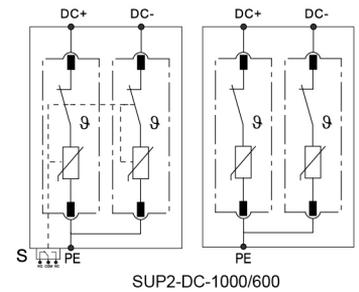
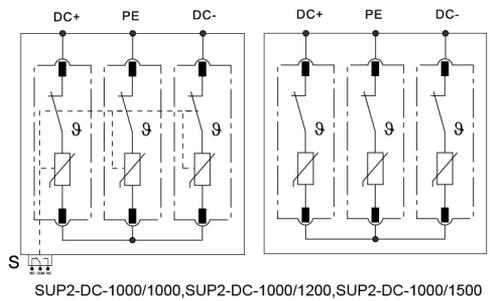
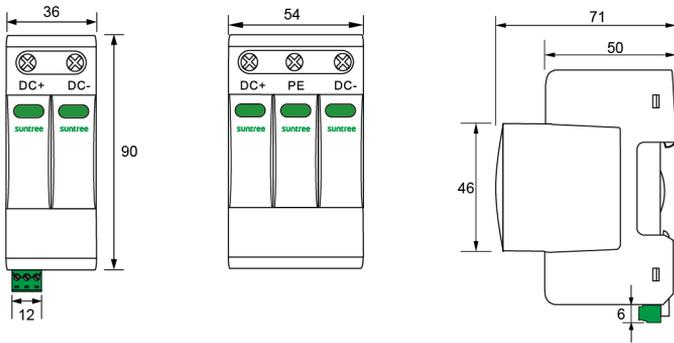
MODEL AND SIGNIFICANCE

S	UP	2	-	DC	/		3	1000	X
Enterprise code	Surge protector device	Design Number		PV code DC dedicated		Maximum Discharge Current 40kA(T2) 7kA(T1)	Number of Poles	Rated Voltage 500VDC 800VDC 1000VDC 1500VDC	Remote sensing

CLASS II...TYPE 2

- LOCATION OF USE: STRING BOX, INVERTER
- MODE OF PROTECTION: (DC+) - PE, (DC-) - PE, (DC+) - (DC-)
- SURGE RATINGS: ITOTAL = 20 KA (10/350 MS) ITOTAL = 40 KA (8/20 MS)
- IEC/EN/UL CATEGORY: CLASS I+II / TYPE 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)



PV MULTIPOLAR SURGE PROTECTOR

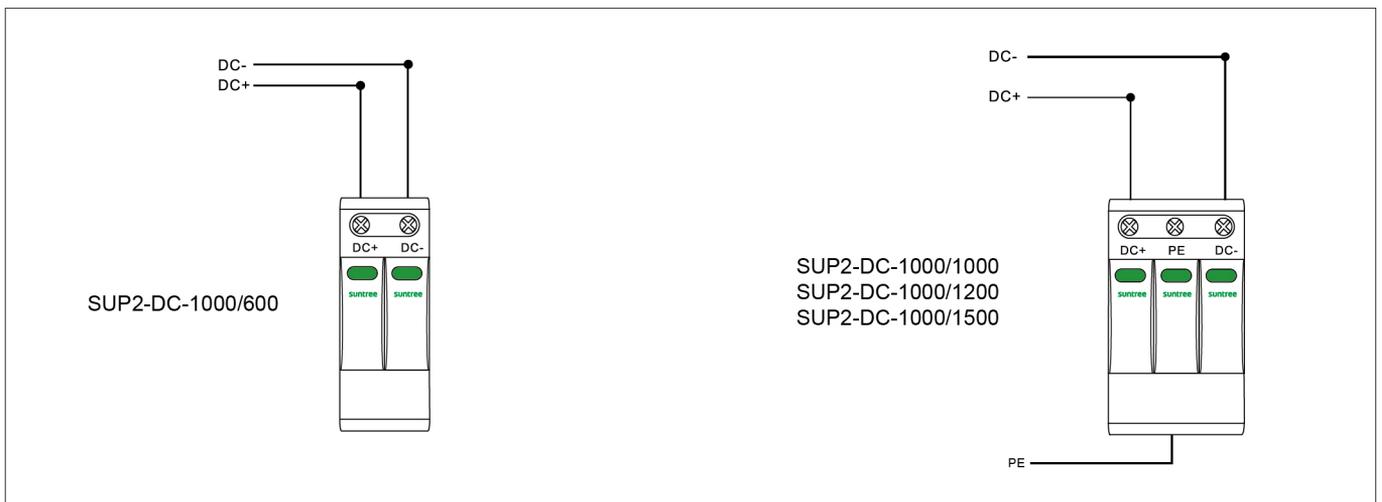
• SUP2-DC/1000VDC

TECHNICAL DATA

IEC Electrical						
Maximum Continuous Operating DC Voltage	(DC+) - PE, (DC-) - PE,(DC+) - (DC-)	U_{CPV}	600V	1000V	1200V	1500V
Nominal Discharge Current (8/20 μ s)		I_n	20kA			
Total Discharge Current (10/350 μ s)		I_{Total}	40kA			
Maximum Discharge Current (8/20 μ s)		I_{max}	40kA			
Voltage Protection Level		U_p	$\leq 2200V$	$\leq 4000V$	$\leq 4400V$	$\leq 5200V$
Response Time	(DC+) - PE, (DC-) - PE,(DC+) - (DC-)	t_A	< 25 ns			
Short-Circuit Current Rating		I_{SCPV}	2000A			
Number of Ports			1			

Mechanical & Environmental		
Operating Temperature Range	T_a	-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	M_{max}	39.9 lbf-in [4.5 Nm]
Conductor Cross Section (max)		2 AWG (Solid, Stranded)/4 AWG (Flexible) 35mm ² (Solid, Stranded)/25mm ² (Flexible)
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 (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 ² (Solid)

CONNECTION DIAGRAM





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