

Pluggable Multi-Pole SPD for Photovoltaic Systems UN-PVXXX-(S)

Class II • Type 2



Location of Use: String box, Inverter
 Mode of Protection: (DC+) - PE, (DC-) - PE, (DC+) - (DC-)
 Surge Ratings: $I_n = 20\text{kA}$ (8/20 μs)
 $I_{\text{Total}} = \text{up to } 40\text{kA}$ (8/20 μs)
 IEC/EN Category: Class II / Type 2
 Protective Elements: High Energy MOV
 Housing: Pluggable Design
 Compliance: IEC 61643-31:2018
 EN 50539-11:2013+A1:2014

Technical Data

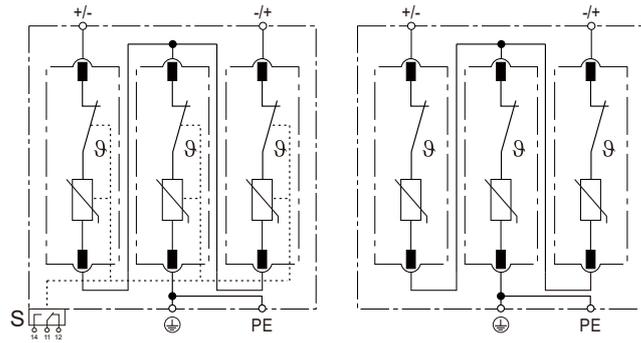
UN-PVXXX- (S)		600	1000	1200	1500	
IEC Electrical						
Maximum Continuous Operating DC Voltage	(DC+) - PE, (DC-) - PE	U_{CPV}	600 V	1000 V	1200 V	1500 V
	(DC+) - (DC-)	U_{CPV}	-	1000 V	1200 V	1500 V
Nominal Discharge Current (8/20 μs)		I_n		20 kA		
Total Discharge Current (8/20 μs)		I_{Total}		40 kA		
Maximum Discharge Current (8/20 μs)		I_{max}		40 kA		
Voltage Protection Level	(DC+) - PE, (DC-) - PE	U_p	2200 V	4000 V	4400 V	5200 V
	(DC+) - (DC-)	U_p	-	4000 V	4400 V	5200 V
Residual Current at U_c		I_{PE}		< 0, 5 mA		
Response Time		t_A		< 25 ns		
Short-Circuit Current Rating		I_{SCPV}		10000A		
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	5%...95%			
Atmospheric pressure and altitude			80k Pa ... 106k Pa / -500 m ... 2000 m			
Terminal Screw Torque		M_{max}	39.9 lbf-in [4.5Nm]			
Conductor Cross Section (max)			2 AWG (Solid, Stranded) / 4 AWG (Flexible) 35 mm ² (Solid, Stranded) / 25 mm ² (Flexible)			
Mounting			35 mm DIN Rail, EN 60715			
Degree Of Protection			IP 20 (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)			Optional			
RC Switching Capacity			AC: 250V/0.5A; DC: 250V/0.1A; 125V/0.2A; 75V/0.5A			
RC Conductor Cross Section (max)			16 AWG (Solid) / 1.5 mm ² (Solid)			
Order Information						
Ordering Code						
UN -PVXXX						
UN -PVXXX-(S)(with remote contacts)						
UN -PVXXX/0(spare modules)						

UN-PVXXX-(S)

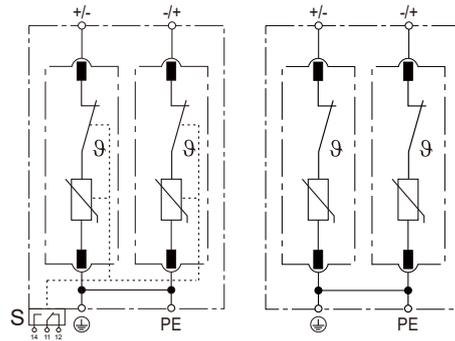
Internal Configuration

d n e g e L
 ⊕/PE Protective Earth
 S Signalling Contacts Optional

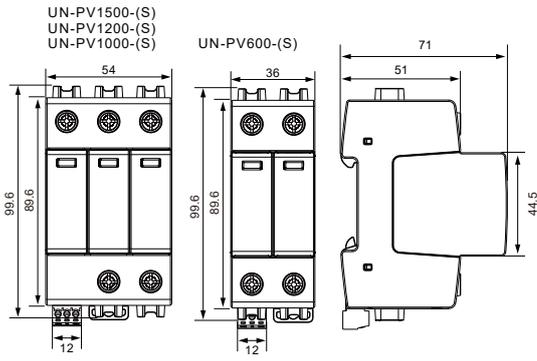
UN-PV1000-(S), UN-PV1200-(S), UN-PV1500-(S)



UN-PV600-(S)



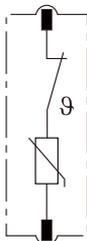
Dimensions & Packaging



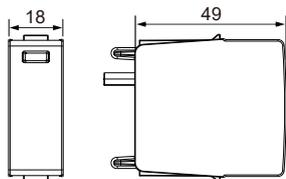
Plug Internal Configuration

Dimensions & Packaging				
UN-PVXXX-(S)	600	1000	1200	1500
Single Unit DIN 43880 Dimension	1 CTN			
Packaging Dimensions (HxWxL)	[270 × 230 × 330 mm]			
Minimum Order Quantity	NA			

UN-PVXXX/0



Dimensions & Packaging



Dimensions & Packaging				
UN-PVXXX/0	600	1000	1200	1500
Single Unit DIN 43880 Dimension	1 CTN			
Packaging Dimensions (HxWxL)	[270 × 230 × 330 mm]			
Minimum Order Quantity	NA			

[mm]

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