

Application

Surge protective device, protect against lightning surge voltages in solar system (photovoltaic power supply system). These units must be installed in parallel on the dc networks to be protected and provide common and different models protection. Its installed location are recommended at both ends of the dc power supply line (solar panel side and inverter/converter side), especially if the line routing is external and long. High energy MOVs equipped with specific thermal disconnectors and related failure indicators.

Specifications

XLSPD-PV Series Surge Protector	XLSPD-PV					
PVDC - specific	EN50539-11					
Pole	2P	2P	3P	3P	3P(COSTOMIZED)	
Electrical parameter						
Classified test	II	II	II	II	II	
Uoc max (VDC)	600	800	1000	1000	1500	1500
1	600	800	1000	1000	1500	1500
In (8 /20)us (kA)	20	20	20	20	20	20
Ima x (8 /20)us (kA)	40	40	40	40	40	40
Up (kV)	2.8	2.8	3.2	3.2	5.0	5.0

Remote Signal Contact

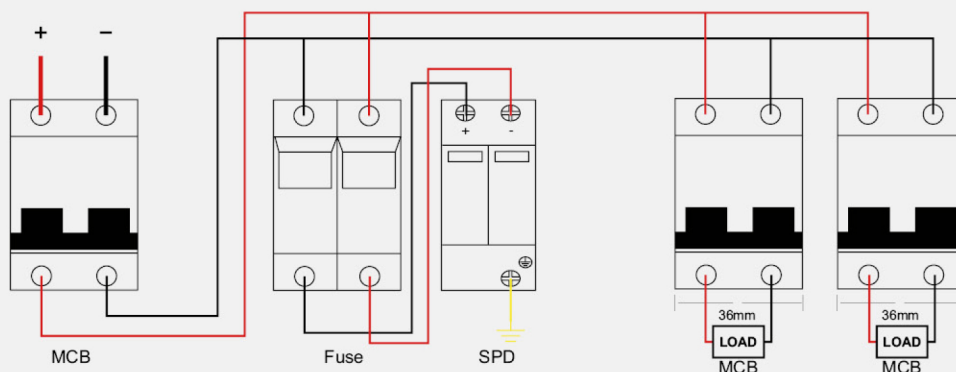
Remote signal contact	Maximum working voltage (V)	250VAC/30VDC	250VAC /30VDC
-	Maximum working current (A) IA (250 V /AC)IA (250V/AC)	IA (250V/AC)	IA (250V /AC)
	I A (30 V DC)	IA (30V/AC)	IA (30V /AC)

Installation and Dimensions

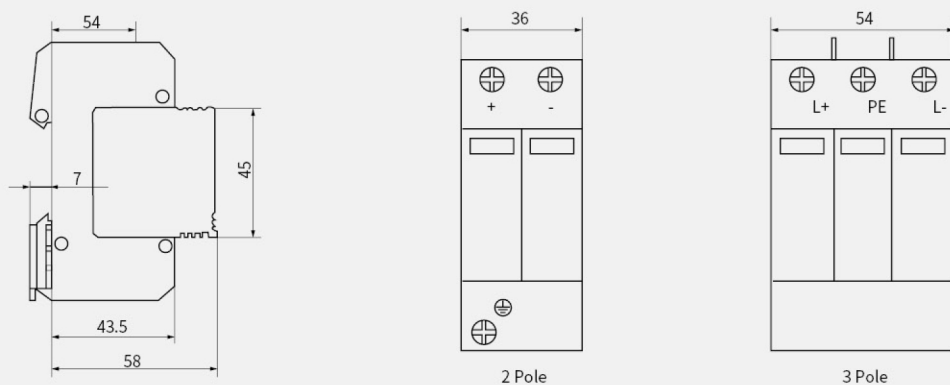
Wiring capacity(mm2)	Hard wire	4~25	4~25
	Flexible wire	4~16	4~16
Stripping length(mm)	10		10
Terminals crcwa	M5		M5
Torque (Nm)	Main circuit	3.5	3.5
	Remote signal contact	0.25	0.25
Protection class	All profile	IP40	IP40
	Connection port	IP20	IP20
Installation environment	No obvious shock and vibration		
Altitude (m)	≤2000		≤2000
Working Temperature	-30°C ~ +70°C		-30°C ~ +70°C
Relative humidity	30%~90 %		30%~90 %
How to install	Installed with H 35-7.5/DIN35 steel mounting rail		
Size (mm) (W x H x L)	W	36	54
	H	90	90
	L	67.6	67.6
Weight (kg)	0.24		0.36



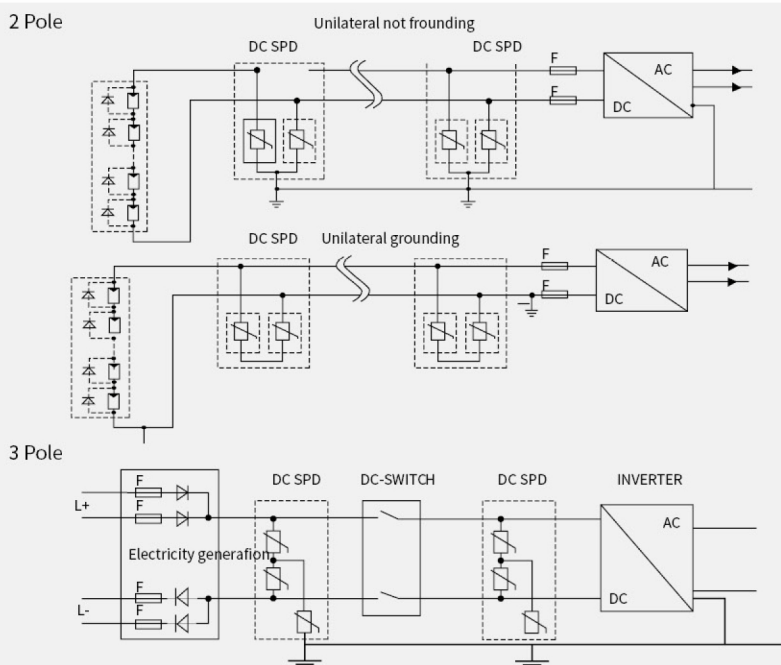
Wiring Diagram



Dimensions



Drawing





Product Service

Attestation of Conformity

No. N8A 110654 0002 Rev. 00

Model(s): XLSPD-PV, XLSPD-PVII

Brand:



Parameters:

SPD type:	Class II
Maximum continuous operating voltage U_{CPV} :	See below table
Nominal discharge current I_n :	20kA
Max discharge current I_{max} :	40kA
Voltage protection level U_P :	See below table
Short circuit withstand I_{SCP} :	18A
Number of ports:	One port
Mounting method:	Fixed

Model	Mode of protection	U_{CPV} (Vdc)	U_P (kV)
XLSPD-PV	+/- to PE, + to -	1000	3.8
XLSPD-PVII	+/- to PE, + to -	1500	5.5

Tested
according to:

EN 61643-31:2019

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After preparation of the necessary technical documentation as well as the EU declaration of conformity the required CE marking can be affixed on the product. The declaration of conformity is issued under the sole responsibility of the manufacturer. Other relevant EU-directives have to be observed.