

M-Ti PVA Series

Photovoltaic Surge Protection Device

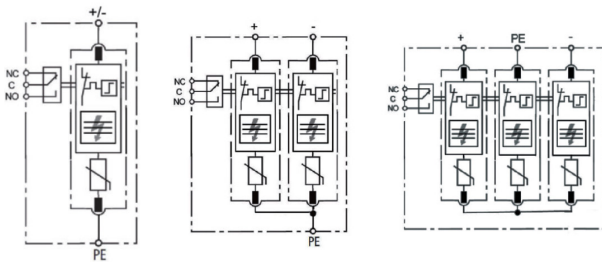
The **PVA Series SPD** is UL recognized in accordance with the UL 1449 4th Edition Standard as a DC SPD for use in DC and PV applications.

These **Type 1CA & Type 2CA** Surge Protection Devices are for use in Type 1, Type 2, Photovoltaic and DC Systems. They are pluggable devices designed with **window fault indicators** for easy monitoring and replacement.

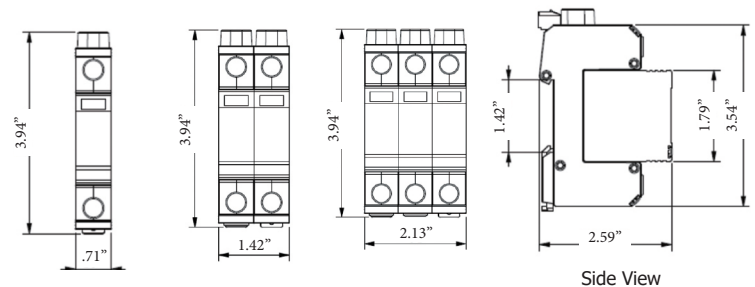
The **PVA SPD's** are available in 3 configurations; "I" (Single Mode), "V" (Common Mode) and "Y" (Differential Mode) making them perfect for multiple applications. They are **highly reliable** due to the patented thermally protected MOV's employed. Units do not require additional front end safety fusing.



Basic Circuit Diagram



Dimensions



(Diagrams not drawn to scale)

Product Specifications		
Voltage Protection Rating	<1.5kV	<1.5kV
I_n (nominal discharge current)	20kA	
I_{max} Maximum Discharge Current (8/20)	50kA	
Response Time	≤ 25ns	
Operating Temperature	-40°C ~ +85°C	
SCCR (Short Circuit Current Rating)	See Table Below	

Product Specifications	
Approvals/Certifications	UL/CE/ROHS
Safety Standards (Type 1 & 2 SPD)	ANSI/UL 1449 & CSA 22.2
Mounting	35mm DIN-rail
Enclosure Material	Thermoplastic: extinguishing degree UL94 V-0

Model Number	# of Poles	Nominal (Vdc)	Max Permitted DC Voltage	Nominal I_n 8x20μs kA	I Max (8x20μs) kA	VPR kV	SCCR Rating kArms
PVA50-1P-048i-S	1	48V	85V	20kA	50kA	400V	30,000
PVA50-1P-500i-S	1	500V	550V	20kA	50kA	1500V	100,000
PVA50-1P-600i-S	1	600V	670V	20kA	50kA	1500V	50,000
PVA50-2P-048v-S	2	48V	85V	20kA	50kA	400V	30,000
PVA50-2P-500v-S	2	500V	550V	20kA	50kA	1500V	100,000
PVA50-2P-600v-S	2	600V	670V	20kA	50kA	1500V	50,000
PVA50-3P-600y-S	3	600V	700V	20kA	50kA	1800V	50,000
PVA50-3P-800y-S	3	800V	920V	20kA	50kA	2500V	50,000
PVA50-3P-1000y-S	3	1000V	1120V	20kA	50kA	2500V	50,000
PVA50-3P-1200y-S	3	1200V	1340V	20kA	50kA	3000V	50,000
PVA50-3P-1500y-S	3	1500V	1500V	20kA	50kA	4000V	50,000
PVA50-5P-600y-S	5	600V	700V	20kA	50kA	1800V	50,000
PVA50-5P-800y-S	5	800V	920V	20kA	50kA	2500V	50,000
PVA50-5P-1000y-S	5	1000V	1120V	20kA	50kA	2500V	50,000
PVA50-5P-1200y-S	5	1200V	1340V	20kA	50kA	3000V	50,000
PVA50-5P-1500y-S	5	1500V	1500V	20kA	50kA	4000V	50,000

NOTE: Adding /C to the end of any model number indicates a Canadian model

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