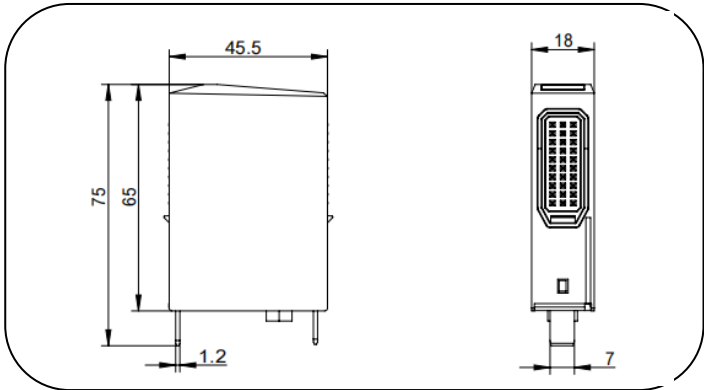
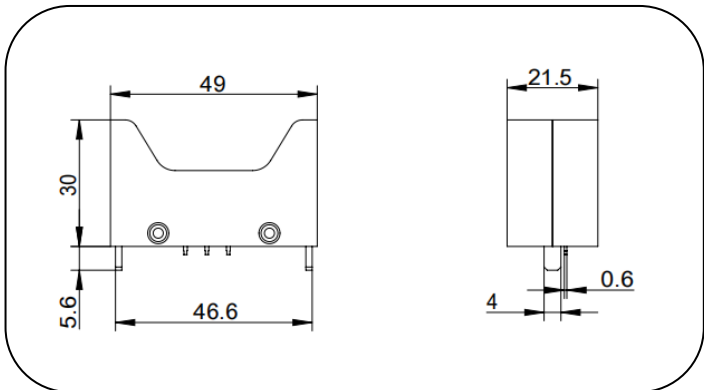


Plug-In module

MPVB12.5...-V

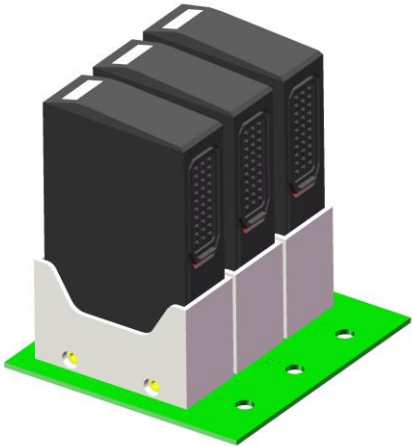


Dimension drawing of MPV module

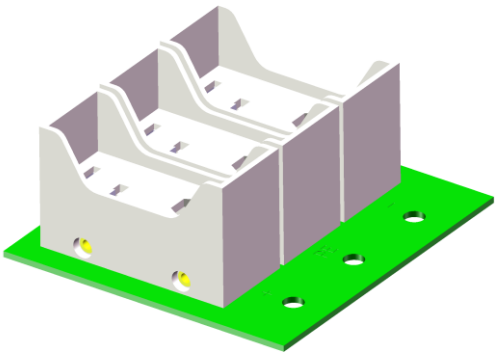


Dimension drawing of PVB_Base

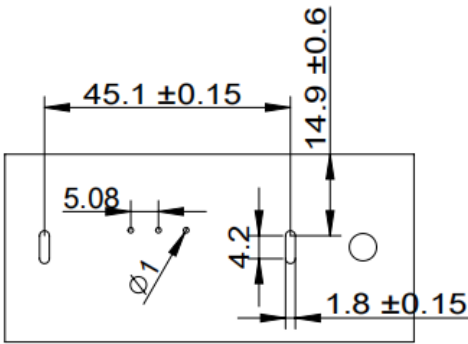
Class I & Class II (or T1 + T2) plug-in module for PVB12.5V series replacement, which is heavy MOV based device with Prosurge's thermal protection and arc extinguishing technology. MPVB12.5 module can be easily integrated on printed circuit boards (PCB) and installed closest to sensitive electronic element inside PV/ DC power electronics while used together with PVB_Base, it will help to protect the most important circuit and minimize the potential impact of lightning events. Further, optimal voltage protection level is achieved for the electronics of the PCB since there is no cable length between the SPD and the device to be protected. The PVB_Base also helps to provide floating remote signal for module fault indication.



(MPVB12.5 module with PVB_Base)



(PVB_Base can be soldered on PCBs directly)



PCB layout dimensions of PVB_Base

POWER SUPPLY SYSTEM

Technical data

Part No.	MPVB12.5/48 -V	MPVB12.5/75 -V	MPVB12.5/10 0-V	MPVB12.5/15 0-V	MPVB12.5/20 0-V	MPVB12.5/30 0-V	MPVB12.5/40 0-V	MPVB12.5/50 0-V	MPVB12.5/60 0-V	MPVB12.5/75 0-V
In accordance with IEC/EN 61643-31; UL1449 5 th ; EN 50539-11										
Category IEC/EU/VDE	I+ II /1+2/ B+C									
Nominal Voltage (DC) Un	48V	60V	100V	150V	200V	300V	400V	500V	600V	750V
Max. continuous operating voltage (DC) Ucpv	55V	100V	125V	170V	225V	350V	460V	560V	670V	800V
Nominal discharge current(8/20) In	25kA	25kA	25kA	25kA	25kA	25kA	25kA	25kA	25kA	25kA
Max. discharge current(8/20) I _{max}	80kA	80kA	80kA	80kA	80kA	80kA	80kA	80kA	80kA	65kA
Lightning impulse current (10/350) I _{imp}	12.5kA	12.5kA	12.5kA	12.5kA	12.5kA	12.5kA	12.5kA	12.5kA	12.5kA	8kA
Voltage protection level Up	0.6kV	0.7kV	0.7kV	0.8kV	1.0kV	1.4kV	1.6kV	1.8kV	2.2kV	2.5kV
Leakage Current I _{pe}	<0.1mA									
Short-circuit Current I _{scpv}	1000A									
Operating temperature range	- 40°C ~ + 85°C									
Enclosure material	thermoplastic; extinguishing degree UL94 V-0									
Degree of protection	IP20									
Thermal disconnector	Internal Green – normal ; red - failure									
Approvals, Certifications	TUV, CE									
Additional data for PVD_Base’s remote alarm contacts										
Remote alarm contact type	Isolated Form C									
Switching capability Un/In	AC: 250V/0.5A DC: 250V/0.1A; 125V/0.2A; 75V/0.5A									