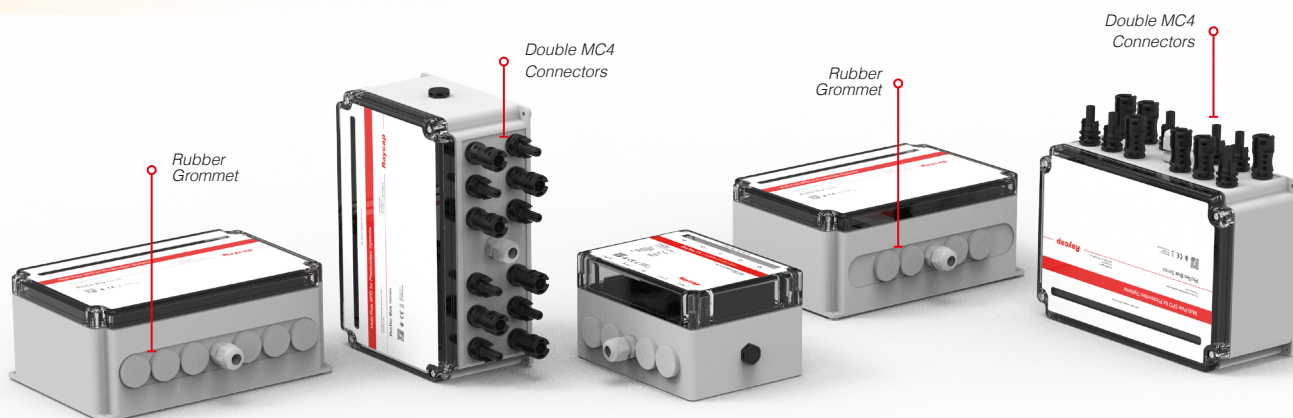


Raycap Surge Protection Technology Multi-Pole SPD Enclosure Solutions for Photovoltaic Systems

These space-saving surge protection and connection solutions were developed for the protection of Photovoltaic (PV) inverters. The pre-assembled enclosures feature Class I & II / EN Type 1 & 2 arresters for 1100V and 1500V DC. Designed for quick on-wall installation at the DC side of the inverter, the compact UV-stable housing is suitable for indoor and outdoor installations. A transparent cover enables the viewing of module failure status indicators.

Main features:

- Available for 1100V and 1500V PV systems
- 3Y, 5Y, 7Y configuration for 1, 2 and 3 string systems
- Compact UV-stable housing with protection class up to IP67
- Transparent cover with failure status indicator on plugs
- Compliant with IEC 61643-31 PV surge protection device standard



Key advantages:

- Easily installed inside the string box using the cable gland or a rubber grommet
- Fast connection of the strings using quick connect terminals or MC4 connectors
- Wide range of uses suitable for indoor and outdoor installations

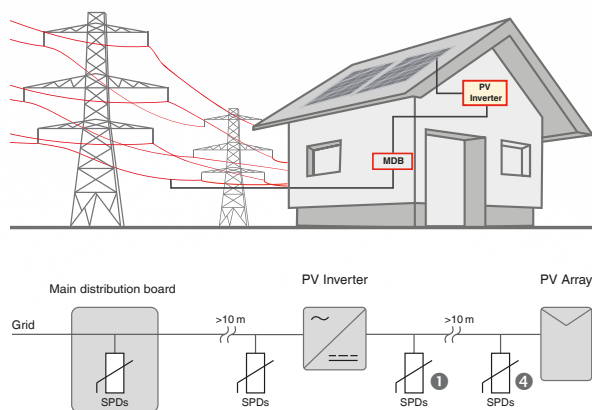


Figure 1: SPD 4 not needed if cable length between 1 and 4 < 10m

Main use:

- Residential PV systems
- Installation on DC side - next to solar inverter (1) and combiner box (4) (See figure 1)
- Versions for different lightning protection systems:
 - No LPS – ProTec T2 PV Box
 - External LPS with separation distance – ProTec T2 PV Box
 - External LPS with no separation distance – ProTec T1 PV Box












Additional information
and Connection Configuration
line schematics can be found
in QR Code.



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ProTec PV Box Series Product Selector

Multiple connection options are available depending upon the installation need. Products ship assembled with customer specified connection configuration.

	Technical Features	Classification	Product Name	Order Code
RUBBER GROMMETS	<ul style="list-style-type: none"> • T and V connection • Quick connect terminals on PCB • IP65 ingress protection 	 1 MPPT [3Y]	TYPE 1 ProTec T1-1100PV-3Y-RG-Box	515 649
			ProTec T1-1500PV-3Y-S-RG-Box	515 651
			TYPE 2 ProTec T2-1100PV-3Y-L-RG-Box	515 646
			ProTec T2-1500PV-3Y-L-RG-Box	515 648
		 2 MPPT [5Y]	TYPE 1 ProTec T1-1100PV-5Y-RG-Box	515 650
			ProTec T1-1500PV-5Y-RG-Box	515 652
			TYPE 2 ProTec T2-1100PV-5Y-L-RG-Box	515 645
			ProTec T2-1500PV-5Y-L-RG-Box	515 647
		 2 MPPT [5Y]	TYPE 1 ProTec Box T1-1100PV-5Y-RG	515 936
			ProTec Box T1-1500PV-5Y-S-RG	515 937
			TYPE 2 ProTec Box T2-1100PV-5Y-L-RG	515 938
			ProTec Box T2-1500PV-5Y-L-RG	515 939
		 3 MPPT [7Y]	TYPE 1 ProTec Box T1-1100PV-7Y-RG	515 863
			ProTec Box T1-1500PV-7Y-S-RG	515 864
			TYPE 2 ProTec Box T2-1100PV-7Y-L-RG	515 865
			ProTec Box T2-1500PV-7Y-L-RG	515 866
DOUBLE MC4 CONNECTORS	<ul style="list-style-type: none"> • V connection • Fast installation • Connectors on PCB preconnected to MC4 • IP67 ingress protection 	 1 MPPT [3Y]	TYPE 1 ProTec T1-1100PV-3Y-2MC-Box	515 657
			ProTec T1-1500PV-3Y-S-2MC-Box	515 659
			TYPE 2 ProTec T2-1100PV-3Y-L-2MC-Box	515 654
			ProTec T2-1500PV-3Y-L-2MC-Box	515 656
		 2 MPPT [5Y]	TYPE 1 ProTec T1-1100PV-5Y-2MC-Box	515 658
			ProTec T1-1500PV-5Y-S-2MC-Box	515 660
			TYPE 2 ProTec T2-1100PV-5Y-L-2MC-Box	515 653
			ProTec T2-1500PV-5Y-L-2MC-Box	515 655
		 3 MPPT [7Y]	TYPE 1 ProTec Box T1-1100PV-7Y-2MC4	515 850
			ProTec Box T1-1500PV-7Y-S-2MC4	515 851
TYPE 2 ProTec Box T2-1100PV-7Y-L-2MC4	515 852			
ProTec Box T2-1500PV-7Y-L-2MC4	515 853			
MC4 CONNECTORS	<ul style="list-style-type: none"> • T connection • Fast installation • Connectors on PCB preconnected to MC4 • IP67 ingress protection 	 1 MPPT [3Y]	TYPE 1 ProTec T1-1100PV-3Y-MC-Box	515 615
			ProTec T1-1500PV-3Y-S-MC-Box	515 617
			TYPE 2 ProTec T2-1100PV-3Y-L-MC-Box	515 550
			ProTec T2-1500PV-3Y-L-MC-Box	515 552
		 2 MPPT [5Y]	TYPE 1 ProTec T1-1100PV-5Y-MC-Box	515 616
			ProTec T1-1500PV-5Y-S-MC-Box	515 618
			TYPE 2 ProTec T2-1100PV-5Y-L-MC-Box	515 549
			ProTec T2-1500PV-5Y-L-MC-Box	515 551