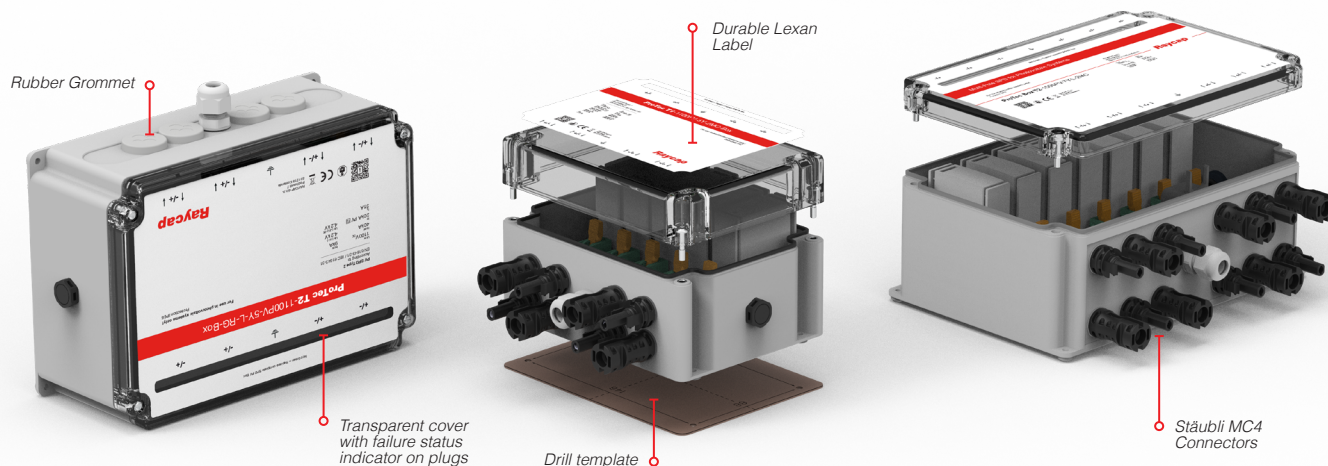


Raycap Surge Protection Technology Multi-Pole SPD Enclosure Solutions for Photovoltaic Systems

These space-saving surge protection and connection solutions were developed for the protection of Photovoltaic (PV) inverters. The pre-assembled enclosures feature 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
- Fast connection of the strings using quick connect terminals or MC4 connectors
- Wide range of uses suitable for indoor and outdoor installations

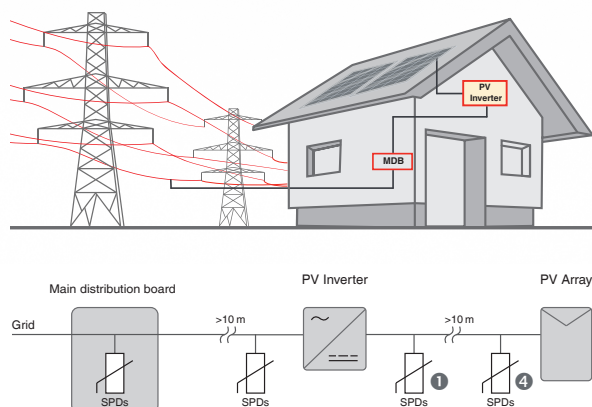


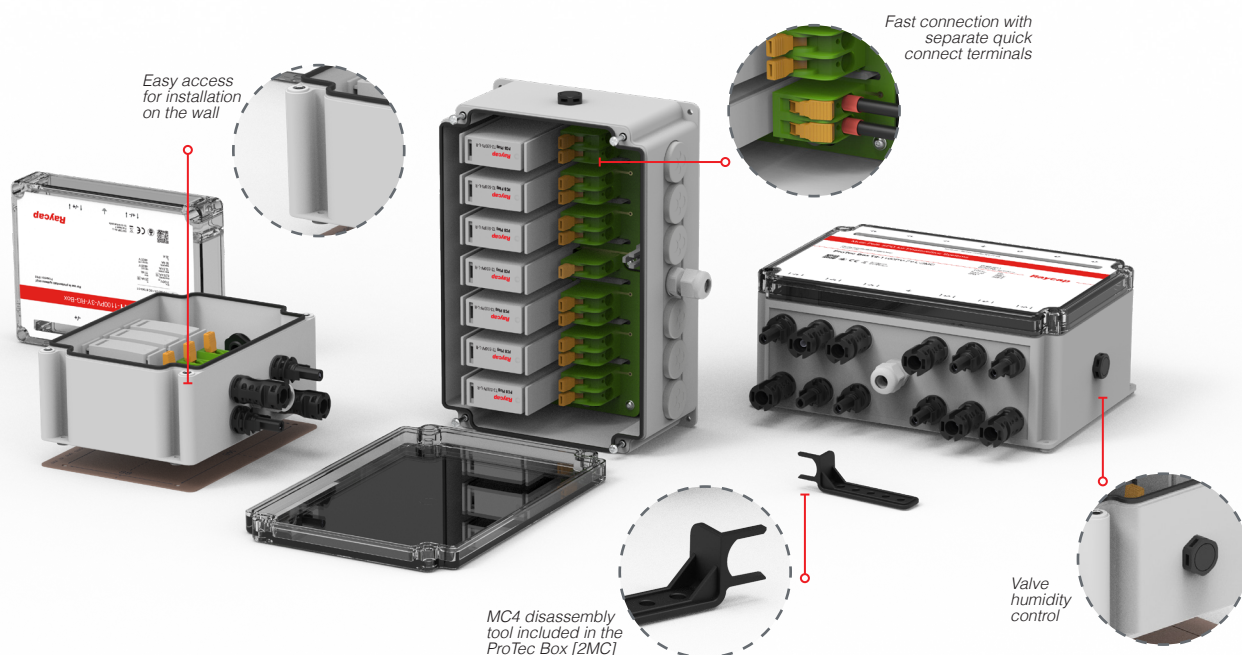
Figure 1: SPD 4 is needed if the cable length between 1 and 4 > 10m.

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



ProTec PV Box Series Installation Benefits & Product Selector



Multiple connection options are available depending upon the installation need.

Technical Features		Classification	Product Name	Order Code
RUBBER GROMMETS	 - 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
			TYPE 2 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 Box T1-1100PV-5Y-RG	515 936
			TYPE 2 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
			TYPE 2 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	 - 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
			TYPE 2 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 Box T1-1100PV-5Y-2MC-Box	515 658
			TYPE 2 ProTec Box 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
			TYPE 2 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