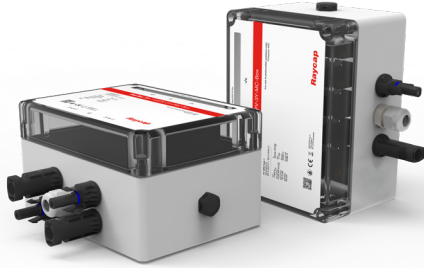


Box with Multi-Pole SPD for Photovoltaic Systems

ProTec T1 PV-3Y(-S)-(x)MC-Box

Class I • Class II • Type 1 • Type 2



Location of Use: Photovoltaic Systems
 Mode of Protection: (+)-PE, (-)-PE, (+)-(-)
 IEC/EN Category: Class I+II, Type 1+2
 Housing: IP 67 Enclosure
 Compliance: EN 61643-31:2019
 IEC 61643-31:2018
 IEC 61439-2: 2020

Technical Data

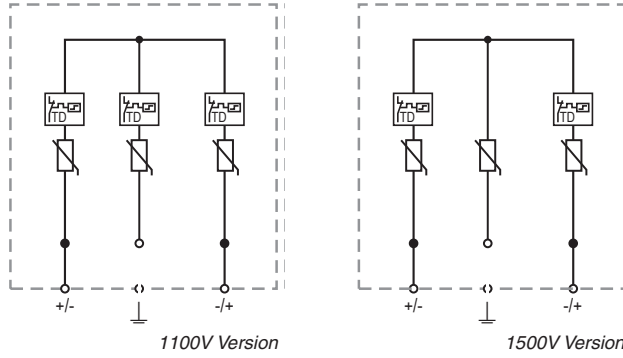
ProTec T1-xxxxPV-3Y(-S)-(x)MC-Box		1100	1500
Electrical			
Maximum Continuous Operating Voltage (DC)	U_{OPV}	1100V	1500V
Nominal Discharge Current (8/20 μ s)	I_n	20 kA	20 kA
Total Discharge Current (8/20 μ s)	I_{total}	50 kA	50 kA
Maximum Discharge Current (8/20 μ s)	I_{max}	40 kA	50 kA
Impulse Discharge Current (10/350 μ s)	I_{imp}	6.25 kA	6.25 kA
Total Discharge Current (10/350 μ s)	I_{total}	12.5 kA	12.5 kA
Specific Energy	W/R	9.77 kJ/ Ω	9.77 kJ/ Ω
Charge	Q	3.125 As	3.125 As
Voltage Protection Level	U_p	< 4.4 kV	< 5.2 kV
Rated Load Current [2MC]	I_L	35 A	35 A
Response Time	t_A	< 25 ns	< 25 ns
Short Circuit Current Rating	I_{SCPV}	11 kA	30 kA
Number of Strings per MPPT			1
Mechanical & Environmental			
Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]	
Permissible Humidity	RH	5%...95%	
Altitude		13123ft [4000m]	
Type of Cable Entry		Cable Gland / MC4 Connectors	
Wire Insulation Outer Diameter	(min)	.15" [4 mm] (stranded, flexible)	
	(max)	.31" [8mm] (stranded, flexible)	
Conductor Cross Section Grounding [Cable Gland]	(min)	24 AWG [0.2mm ²] (stranded, flexible)	
	(max)	5 AWG [16mm ²] (stranded, flexible)	
Degree of Protection		IP 67	
Thermal Protection		Yes	
Operating State / Fault Indication		Green Flag / Not Green Flag	
Housing Material		Polycarbonate with Semi-transparent	
Mounting		Wall - Indoor/Outdoor	
Order Information			
Order Code		1100	1500
ProTec T1-xxxxPV-3Y-MC-Box		515 615	-
ProTec T1-xxxxPV-3Y-S-MC-Box		-	515 617
ProTec T1-xxxxPV-3Y-2MC-Box		515 657	-
ProTec T1-xxxxPV-3Y-S-2MC-Box		-	515 659

ProTec T1 PV-3Y-L(-S)-(x)MC-Box

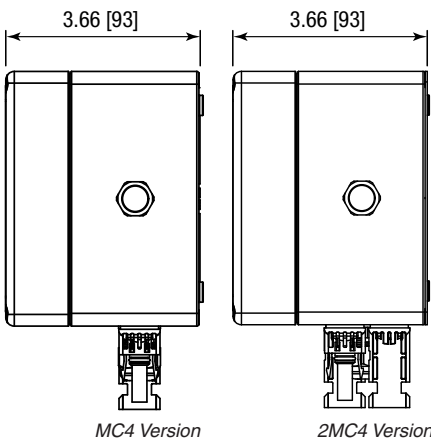
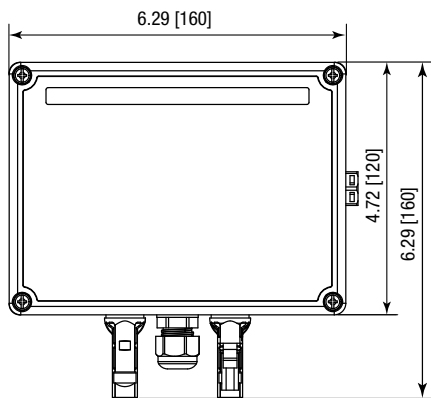
Internal Configuration

Legend

- +/-, -/+ Terminal for +/-, -/+ Conductor
- ⏏ Terminal for PE/G Conductor
- TD Thermal Disconnect



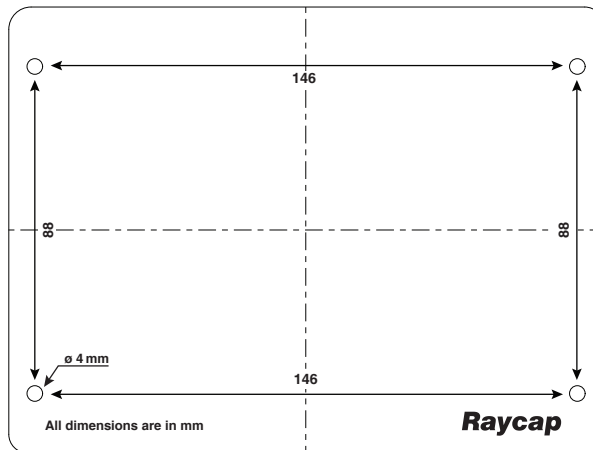
Dimensions & Packaging inches [mm]



Dimensions & Packaging

ProTec T1-xxxxPV-3Y(-S)-MC-Box	1100	1500	
Single Unit Weight	pounds [grams]	1.54 [701]	1.77 [806]
ProTec T1-xxxxPV-3Y(-S)-2MC-Box			
Single Unit Weight	pounds [grams]	2.01 [915]	2.24 [1020]
Packaging Dimensions (H x W x L)	4.06 x 6.29 x 7.87" [103 x 160 x 200 mm]		
Minimum Package Quantity	1 Unit		

Drill Template [mm]



Information contained in this document is subject to change at any time without notice.

