

Box with Multi-Pole SPD for Photovoltaic Systems

ProTec Box T2 5Y RG

Class II • Type 2



Location of Use: Photovoltaic Systems
 Mode of Protection: (+)-PE, (-)-PE, (+)-(-)
 IEC/EN Category: Class II, Type 2
 Housing: IP 65 Enclosure
 Compliance: EN 61643-31:2019
 IEC 61643-31:2018



Technical Data

ProTec Box T2-xxxxPV-5Y(-L)(-RG)

1100

1500

EN Electrical

Maximum Continuous Operating Voltage (DC)	U_{OPV}	1100V	1500V
Nominal Discharge Current (8/20 μ s)	I_n	20 kA	15 kA
Total Discharge Current (8/20 μ s)	I_{total}	40 kA	40 kA
Maximum Discharge Current (8/20 μ s)	I_{max}	40 kA	40 kA
Voltage Protection Level	U_p	4200V	4800V
Rated Load Current	I_L	45 A	45 A
Response Time	t_A	< 25 ns	< 25 ns
Overvoltage Category		III	III
Short Circuit Current Rating	I_{SCPV}	9 kA	9 kA
Number of Strings per MPPT		2	

Mechanical & Environmental

Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]	
Permissible Humidity	RH	5%...95%	
Pollution Degree		2	
Altitude		13123 ft [4000 m]	
Type of Cable Entry		Cable Gland / Rubber Grommet	
Wire Insulation Outer Diameter	(min)	.15" [4 mm] (stranded, flexible)	
	(max)	.31" [8 mm] (stranded, flexible)	
Conductor Cross Section [Cable Gland]	(min)	24 AWG [0.2 mm ²] (stranded, flexible)	
	(max)	5 AWG [16 mm ²] (stranded, flexible)	
2 Conductors with Same Cross Section and Twin Ferrule [Rubber Grommet]	(min)	20 AWG [0.5 mm ²] (stranded, flexible)	
	(max)	9 AWG [6 mm ²] (stranded, flexible)	
Degree of Protection [Rubber Grommet]		IP 65	
Thermal Protection		Yes	
Operating State / Fault Indication		Green Flag / Not Green Flag	
Housing Material		Polycarbonate with Semi-transparent	
Mounting		Wall - Indoor/Outdoor	

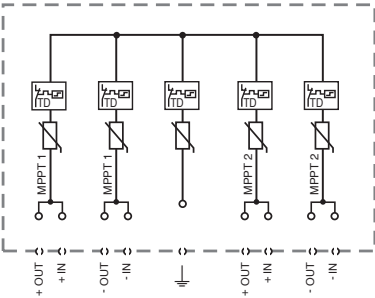
Internal Configuration

Legend

+/-, -/+ Terminal for +/-, -/+ Conductor

⏏ Terminal for PE/G Conductor

TD Thermal Disconnect

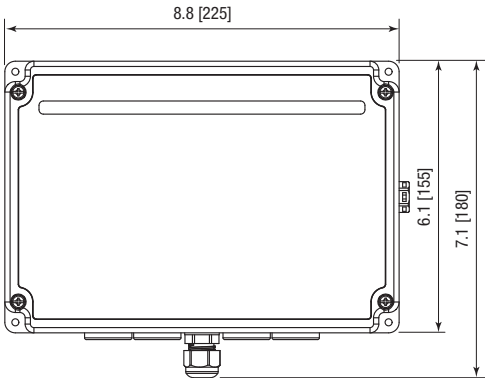
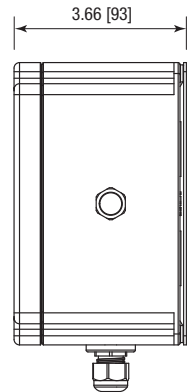


Order Information

Order Code	1100	1500
ProTec Box T2-xxxxPV-5Y-L-RG	515 938	-
ProTec Box T2-xxxxPV-5Y-L-RG	-	515 939

Dimensions & Packaging

inches [mm]



Complete Unit

ProTec Box T2-xxxxPV-5Y(-L)(-RG)		1100	1500
Single Unit Weight	pounds [grams]	2.800 [1270]	2.888 [1310]
Packaging Dimensions (H x W x L)		4.1 x 8.7 x 10.8" [105 x 220 x 275 mm]	
Minimum Package Quantity		1 Unit	