

Multi-Pole Base for Photovoltaic Systems  
**ProTec T2-PV-5Y-01(-R)**  
 Class II • Type 2 • PV SPD Type 1CA



Location of Use: String box, Inverter  
 Mode of Protection: (+)-PE, (-)-PE, (+)-(-)  
 IEC/EN/UL Category: Class II / Type 2 / PV SPD Type 1CA  
 Housing: Pluggable Design  
 Compliance: IEC 61643-31:2018  
 EN 61643-31:2019  
 UL 1449 5th Edition

**Technical Data**

**ProTec T2-xxxxPV-5Y-01(-R)**

**1100**

**EN Electrical**

Maximum Continuous Operating Voltage (PV)	$U_{CPV}$	1100 V
Nominal Discharge Current (8/20 $\mu$ s)	$I_n$	20 kA
Total Discharge Current (8/20 $\mu$ s)	$I_{Total}$	50 kA
Maximum Discharge Current (8/20 $\mu$ s)	$I_{max}$	40 kA
Voltage Protection Level	(+/-)-PE $U_p$	3800 V
	(+)-(-) $U_p$	3800 V
Short-Circuit Current Rating	$I_{SCPV}$	11 kA
Number of Ports		1

**UL Electrical**

Maximum Permitted DC Voltage	$V_{pVdc}$	1100 V
Voltage Protection Level	(+/-)-PE VPR	2500 V
	(+)-(-) VPR	2500 V
Nominal Discharge Current (8/20 $\mu$ s)	$I_n$	20 kA
Short-Circuit Current Rating	SCCR	50 kA

**Additional Electrical Parameters** (Tests performed within Raycap testing laboratory only)

Residual Voltage at 5 kA (8/20 $\mu$ s)	$U_{res}$	2900 V
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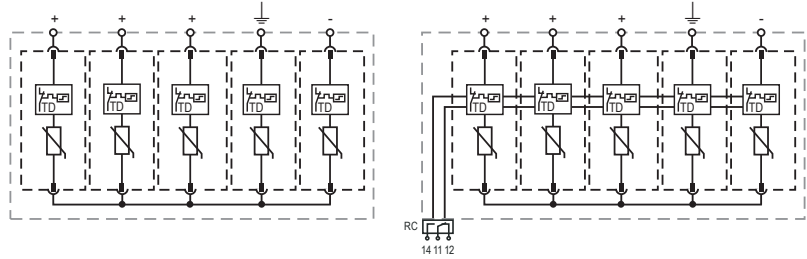
**Mechanical & Environmental**

Operating Temperature Range	$T_a$	-40 °F to +185 °F [-40 °C to +85 °C]
Permissible Operating Humidity	RH	5%...95%
Altitude (max)		13123 ft [4000 m]
Terminal Screw Torque	$M_{max}$	40 lbf-in [4.5 Nm]
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible)
		35 mm <sup>2</sup> (Solid, Stranded) / 25 mm <sup>2</sup> (Flexible)
Mounting		35 mm DIN Rail, EN 60715
Degree Of Protection		IP 20 (built-in)
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0
Thermal Protection		Yes
Operating State / Fault Indication		Green Flag / Not Green Flag
Remote Contacts (RC)		Optional
RC Switching Capacity		AC: 250V/1A, 125V/1A; DC: 48V/0.5A, 24V/0.5A, 12V/0.5A
RC Conductor Cross Section (max)		16 AWG (Solid) / 1.5 mm <sup>2</sup> (Solid)

## Internal Configuration

### Legend

- +,-    + or - Conductor Terminal
- ⏏    PE/G Conductor Terminal
- RC    Remote Contacts Terminal (Optional)
- TD    Thermal Disconnect



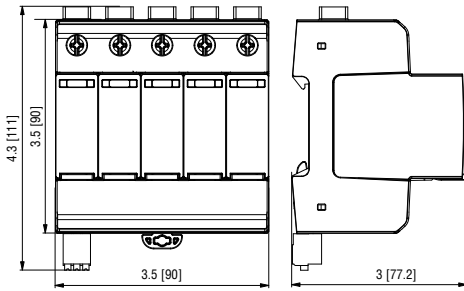
### ProTec T2-xxxxPV-5Y-01(-R)

#### Order Information

Order Code	<b>1100</b>
ProTec T2-xxxxPV-5Y-01	59.A474
ProTec T2-xxxxPV-5Y-01-R (with remote contacts)	59.A475
ProTec T2-550PV-01-P (plug)	59.A477

## Dimensions & Packaging

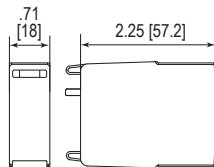
*inches [mm]*



#### Complete Unit

<b>ProTec T2-xxxxPV-5Y-01</b>	<b>1100</b>						
Weight	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">pounds</td> <td style="width: 20%;"></td> <td style="width: 30%; text-align: right;">1.313</td> </tr> <tr> <td>grams</td> <td></td> <td style="text-align: right;">596</td> </tr> </table>	pounds		1.313	grams		596
pounds		1.313					
grams		596					
<b>ProTec T2-xxxxPV-5Y-01-R</b>	<b>1100</b>						
Weight	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">pounds</td> <td style="width: 20%;"></td> <td style="width: 30%; text-align: right;">1.329</td> </tr> <tr> <td>grams</td> <td></td> <td style="text-align: right;">603</td> </tr> </table>	pounds		1.329	grams		603
pounds		1.329					
grams		603					
DIN 43880 Dimension	5 TE / 3.5" [90]						
Packaging Dimensions (H x W x L)	4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]						
Standard Order Quantity	3 Units						

## Spare Plug



#### Single Unit

<b>ProTec T2-xxxPV-01-P</b>	<b>550</b>						
Single Unit Weight	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">pounds</td> <td style="width: 20%;"></td> <td style="width: 30%; text-align: right;">.145</td> </tr> <tr> <td>grams</td> <td></td> <td style="text-align: right;">66</td> </tr> </table>	pounds		.145	grams		66
pounds		.145					
grams		66					
Single Unit DIN 43880 Dimension	1 TE / .71 [18]						
Packaging Dimensions (H x W x L)	3.2 x 4.5 x 12" [83 x 116 x 305 mm]						
Standard Order Quantity	24 Units						