DATASHEET

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

CE cULus RoHS COMPLIANT

Technical Data

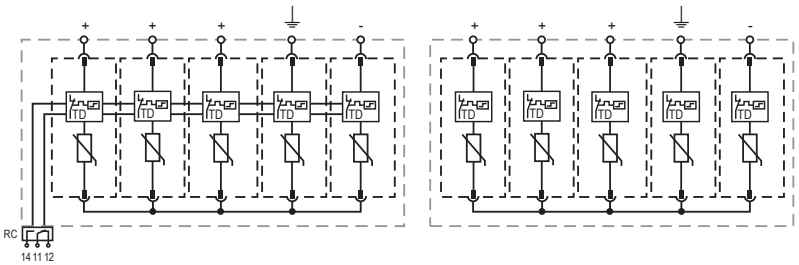
ProTec T2-xxxxPV-5Y-01(-R)			1100
EN Electrical			
Maximum Continuous Operating Voltage (PV)		U_{CPV}	1100 V
Nominal Discharge Current (8/20 µs)		I_n	20 kA
Total Discharge Current (8/20 µs)		I_{Total}	50 kA
Maximum Discharge Current (8/20 µs)		I_{max}	40 kA
Voltage Protection Level	(+/-)-PE	U_p	3800 V
	(+)-(-)	U_p	3800 V
Overvoltage Category			III
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 µs)		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 µs)		U_{res}	2900 V
Mechanical & Environmental			
Operating Temperature Range		T_a	-40 °F to +185 °F [-40 °C to +85 °C]
Permissible Operating Humidity		RH	5%...95%
Pollution Degree			2
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 mm² (Solid, Stranded) / 25 mm² (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: 250 V / 1 A, 125 V / 1 A; DC: 48 V / 0.5 A, 24 V / 0.5 A, 12 V / 0.5 A
RC Conductor Cross Section (max)			16 AWG (Solid) / 1.5 mm² (Solid)
Overvoltage Category			III

Information contained in this document is subject to change at any time without notice.
No part of this document may be reproduced or used without written permission from Raycap.

Internal Configuration

Legend

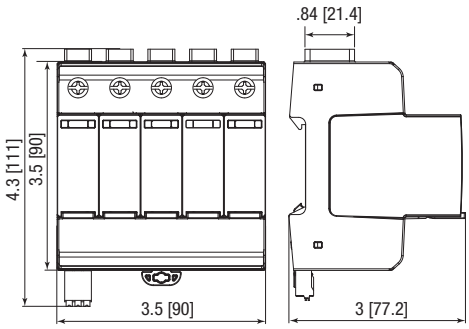
+/-, -/+ + or - Conductor Terminal
⏚ PE/G Conductor Terminal
RC Remote Contacts Terminal (Optional)
TD Thermal Disconnector



Order Information	
Order Code	**1100**
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.A476

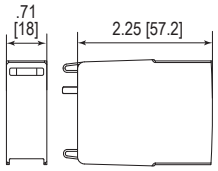
Dimensions & Packaging

inches [mm]



Complete Unit		
ProTec T2-xxxxPV-5Y-01		**1100**
Weight	pounds [grams]	1.313 [596]
ProTec T2-xxxxPV-5Y-01-R		
Weight	pounds [grams]	1.329 [603]
DIN 43880 Dimension		5 TE / 3.5" [90 mm]
Packaging Dimensions (H × W × L)		4.3 × 4.5 × 13.8" [109 × 115 × 352 mm]
Standard Order Quantity		3 Units

Spare Plug



SIngle Unit		
ProTec T2-xxxPV-01-P		**550**
Weight	pounds [grams]	.145 [66]
Single Unit DIN 43880 Dimension		1 TE / .71" [18 mm]
Packaging Dimensions (H × W × L)		3.2 × 4.5 × 12" [83 × 116 × 305 mm]
Standard Order Quantity		24 Units

© 2026 Raycap All rights reserved.