

Surge-Trap® Pluggable T2 - YPV

Photovoltaic & Energy Storage SPDs

DIN RAIL - IEC TYPE 2 PV



General Data

Internal configuration	+,-,PE
No. DIN rail modules	3
Network configuration	YPV
IEC SPD Type	Class II
EN SPD Type	PV Type 2
UL SPD Type	Type 2 Component Assembly
Format	Pluggable
Protection Modes	L+/PE, L-/PE, L+/L-
Product standards	*EN 61643-31 *UL 1449 5th Ed. *IEC 61643-31



PART NUMBERS

XXXX	600	1000	1500
STPT2-40KXXXXV-YPV	83020138	83020140	83020158
STPT2-40KXXXXV-YPVM (with Microswitch)	83020139	83020141	83020159

SURGE PROTECTION DEVICE (SPD) - IEC TECHNICAL FEATURES

STPT2-40KXXXXV-YPV, STPT2-40KXXXXV-YPVM (with Microswitch)	600	1000	1500
Maximum continuous operating voltage (DC) - Ucpv [V]	660	1060	1500
Nominal discharge current (8/20)- In [kA]	20		15
Max Discharge Current (8/20) - Imax [kA]	40		
Voltage protection level at In - Up (L-L) [kV]	≤2,6	≤4	≤5
Voltage protection level at In - Up (L-PE) [kV]	≤2,6	≤4	≤5
Short Circuit Withstand- Iscpv [kA]	10		
Response time - tA [ns]	≤25		
Dynamic thermal disconnection	Yes		
Thermal protection behaviour	OCM (Open Circuit Mode)		

SURGE PROTECTION DEVICE (SPD) - UL TECHNICAL FEATURES

STPT2-40KXXXXV-YPV, STPT2-40KXXXXV-YPVM (with Microswitch)	600	1000	1500
Nominal discharge current (8/20) - In [kA]	20		10
Maximum continuous operating voltage - MCOV (DC DC-) [V]	600	1000	1500
Maximum continuous operating voltage - MCOV (DC+ G) [V]	600	1000	1500
Maximum continuous operating voltage - MCOV (DC- G) [V]	600	1000	1500
Voltage protection rating - VPR (DC- G) [V]	1800	3000	4000
Voltage protection rating - VPR (DC+ DC-) [V]	1800	3000	4000
Voltage protection rating - VPR (DC+ G) [V]	1800	3000	4000
Short-Circuit Current Rating-SCCR [kA]	100	50	65

DATASHEET

This document is subject to change at any time without notice ep.mersen.com | Lepanto 49 - 08223 Terrassa, Barcelona Spain © 2024 Cirprotec SLU | All rights reserved



Surge-Trap[®] Pluggable T2 - YPV

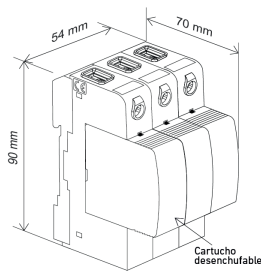
Photovoltaic & Energy Storage SPDs

DIN RAIL - IEC TYPE 2 PV

MECHANICAL AND ENVIRONMENTAL FEATURES

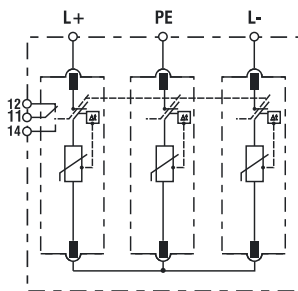
STPT2-40KXXXXV-YPV, STPT2-40KXXXXV-YPVM (with Microswitch)	600	1000	1500
Temperature range [°C]		-40 ... 85	
Humidity range [%]		5 ... 95	
Indication System Type		Green (OK) / Not green (replace)	
Insulating material		PA66 CT1	
Enclosure - IP		IP20	
Flammability class		UL94 V-0	
Solid conductor cross section		6...35 mm ²	
Stranded conductor cross section		6...25 mm ²	
Torque rating [N m]		3	
Remote indication conductor cross section [mm ²]		0.08 ... 1.5	
Remote indication switching capacity [V/A]		AC: 125/3 DC: 250/1	
Remote Indication Torque [N m]		0.2	

DIMENSIONS AND WEIGHT



STPT2-40KXXXXV-YPV STPT2-40KXXXXV-YPVM (with Microswitch)	600	1000	1500
Net Weight [kg]	0.293	0.324	0.34
Gross weight [kg]	0.334	0.364	0.38
Packaging dimensions (H x W x L) [mm]	117 × 63 × 90		

INTERNAL CONFIGURATION



REPLACEMENT CARTRIDGES

STPT2-40KXXXXV-YPV STPT2-40KXXXXV-YPVM (with Microswitch)	600	1000	1500
SP2-40KXXXV-PV (Line)	83020005	83020006	83020010

DATASHEET