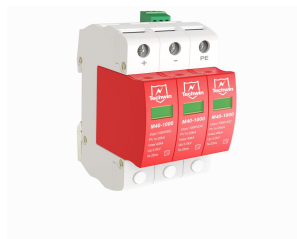# DIN-rail DC power SPD for PV solar power system

voltage limiting type SPD

Description:

DC module for PV solar power system is mainly used to protect DC power system and electric and electronic equipment from lightning over-voltage and transient over-voltage, widely applied in photovoltaic combiner box, inverter and DC distribution box.

Feature:

DIN rail mounting for easy installation
Plug connectors for quick and easy connection or rewiring
Thermal disconnect device
Remote alarm
Status indicator
High quality products with TUV, CE, certificate
It is the first product to abtain 1500V DC TUV certificate

## Application

Suitable for various DC power systems
DC power distribution screen, DC power supply equipment
DC distribution box, electronic information system cabinet
Secondary power supply output
PV junction box
PV inverter, Solar inverter, inverter charger, inverter cabinet
PV substation
DC cabinet

Technical parameters

Model	M40-400	M40-500	M40-600	M40-800	M40-1000	M40-1500
Lighning proection zone(LPZ)	1-2					
Standards Compliance	IEC61643-31, EN60950					
Classification	Class C/Type 2					
Nominal working voltage Un	400VDC	500VDC	600VDC	800VDC	1000VDC	1500
Max continuous operating voltage Ucpv	460VDC	560VDC	800VDC	1000VDC	1200VDC	1800
Nominal discharge current (8/20μs) In	20KA					
Max discharge current Imax (8/20μs) Imax	40KA					
Ressidual current Ipe	<0.1mA					
Short circuit withstand capacity Iscpv	1000A					
Protection level Up	<1200V	<2000V	<2000V	<2500V	<3000V	<3850V
Response time tA	25ns					
Protection model	+, --PE					

Dimension	2P: 90 (H)×36(W)×65(L)mm/	2P or 3P	3P: 91 (H)×54(W)×68(L)mm
Mounting	DIN rail Mounting 35mm		
Max section area of the connecting wire	25mm^2		
Recommend section area of connecting line	+ - wire≥6mm^2 PE wire ≥10mm^2		
Largest terminal installation torgue	6-8 N.m		
IP code	IP20		
Working conditions	Temperature: -40 to 80℃, Relative humidity: ≤95％		

Wire diagram
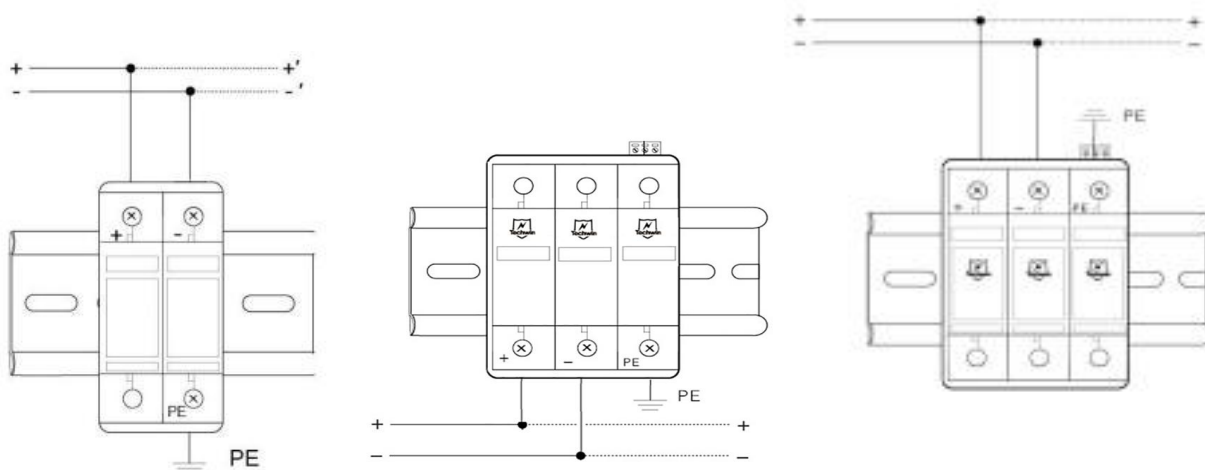
2P   lower wiring   upper wiring

Dimension