


# DC Surge Protective Device



## HSP-D40

### Type 2 Solar DC SPD

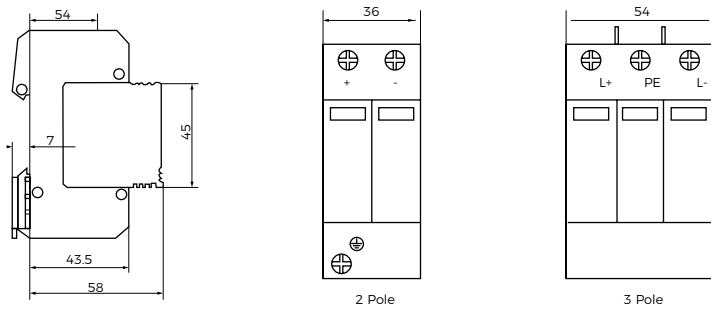
DC SPD protects against lightning surge voltage in the solar system (photovoltaic power supply system). These units must be installed in parallel on the DC networks to be protected and provide common, different modes of protection. Its installed location is recommended at both ends of the DC power supply line (solar panel side and inverter/converter side), especially if the line routing is external and long.

HSP-D40						
PV specific	EN50539-11					
Pole	2P	2P	2P	2P	3P	3P
Uoc max(VDC)	500V	600V	800V	1000V	1000V	1500V
Uc(VDC)	500V	600V	800V	1000V	1000V	1500V
Classified test	II	II	II	II	II	II
In (8 /20)us(KA)	20	20	20	20	20	20
I <sub>max</sub> (8 /20)us(KA)	40	40	40	40	40	40
Up(KV)	2.5	2.5	2.5	3.5	3.5	5.3
<b>Remote Signal Contact</b> 						
Maximum working voltage (V)	250VAC/30VDC					
Maximum working current (A)	IA (250V/AC)					
IA (30V DC)	IA (30V DC)					

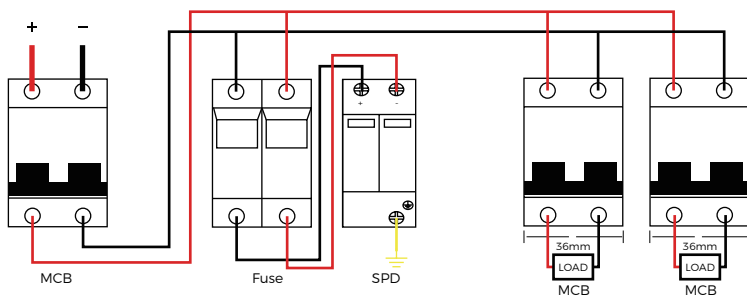
-Consult sales for other parameters, please.

Installation and Dimensions		
Wiring capacity(mm2)-Hard wire	4-25	4-25
Wiring capacity(mm2)-Flexible wire	4-16	4-16
Stripping length(mm)	10	10
Terminals crwa	M5	M5
Torque (Nm)-Main circuit	3.5	3.5
Torque (Nm)-Remote signal contact	0.25	0.25
Protection class-All profile	IP40	IP20
Protection class-Connection port	IP40	IP20
Installation environment	No obvious shock and vibration	
Altitude (m)	≤2000	≤2000
Working Temperature	-30°C ~ +70°C	-30°C ~ +70°C
Relative humidity	30%~90 %	30%~90 %
How to install	Installed with H 35-7.5/DIN35 steel mounting rail	
Size (mm) (W x H x L)	W-36	W-54
	H-90	H-90
	L-67.6	L-67.6
Weight (kg)	0.24	0.36

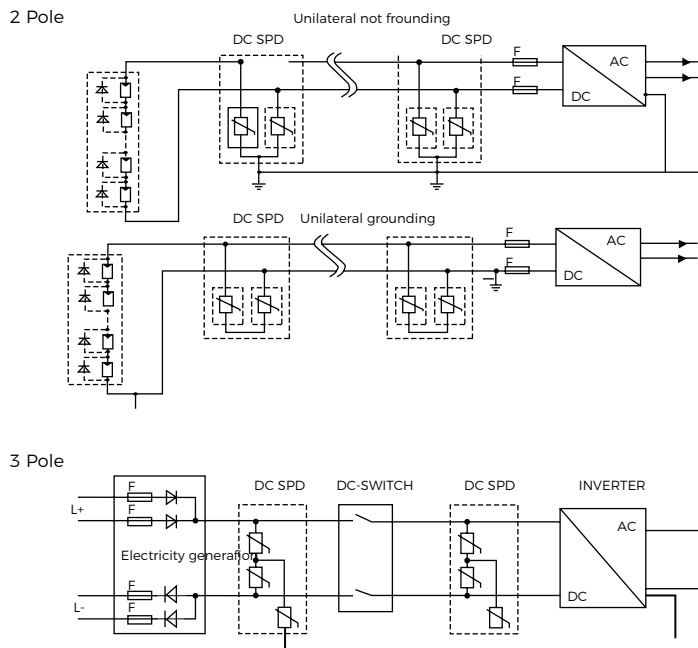
Dimensions:



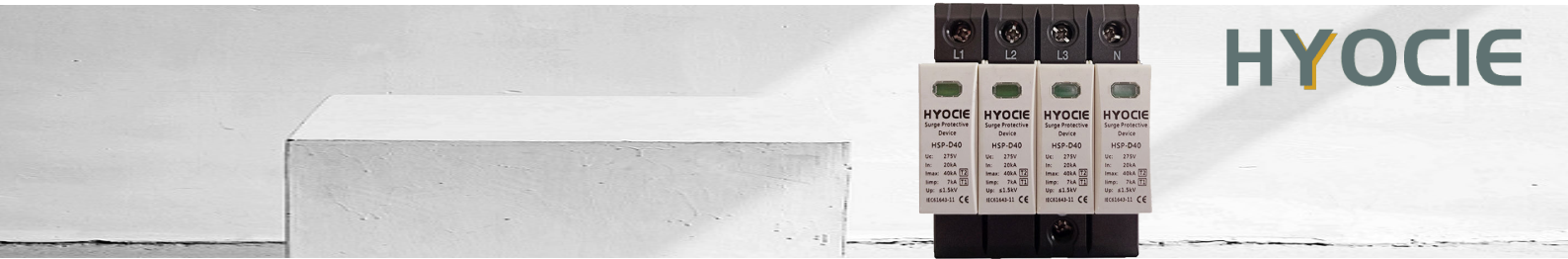
Wiring Diagram



Drawing



# DC Surge Protective Device



## HSP-D40

### Type 1+2 Solar DC SPD

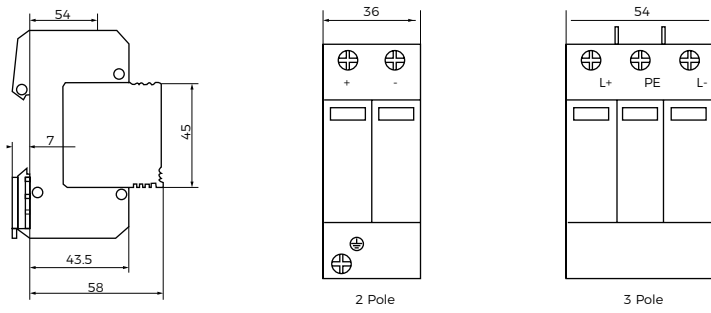
Type 1+2 surge protective device specially designed for photovoltaic power generation, it is installed at the outlet of solar panels with a high risk of a direct lightning strike, it is suitable for photovoltaic system protection with DC voltages of 1000V and 1500V.

HSP-D40			
PV specific	EN50539-11		
Pole	2P	3P	3P
Max. operating voltage:Ucpv	600V	1000V	1500V
Current withstand short-circuit:Iscpv	1000V	1000V	1000V
Operating current - to the voltage Ucpv:Icpv	None		
Leakage current - to the voltage Ucpv:Ipe	None		
Follow current:I <sub>f</sub>	None		
Nominal discharge current - 8/20 us:I <sub>n</sub>	20KA		
Max discharge current by pole - 8/20 us:I <sub>max</sub>	40KA		
Max. Lightning current by pole - 10/350 us:I <sub>imp</sub>	7KA/12.5KA		
Total lightning current - 10/350 us:I <sub>total</sub>	10KA		
TotalMaximaldischargecurrent-8/20us:I <sub>total</sub>	60KA		
Protection level CM/DM (at I <sub>n</sub> ):U <sub>p</sub>	3.0KV	3.5KV	5.1KV

-Consult sales for other parameters, please.

Features
Type 1+2 surge protective device for Photovoltaic
VG-Technology
Up to 1500 Vdc
No leakage, no operating currents
Impulse currents I <sub>imp</sub> /I <sub>total</sub> : 5/20µs & 10/350 us
Common and Differential Mode protection
Plug-in modules
Remote Signaling (option)

Dimensions:



Wiring Diagram

