

# FSP-D40

## Type2 Solar DC Surge Protective Device (DC SPD)

Surge protective device, protect against lightning surge voltages in solar system (photovoltaic power supply system). These units must be installed in parallel on the dc networks to be protected and provide common and different modes protection. Its installed location are 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.



## Specifications

| FPV-D40 Surge protector         | FSP-D40    |     |      |      |
|---------------------------------|------------|-----|------|------|
| PVDC - specific                 | EN61643-31 |     |      |      |
| Pole                            | 2P         | 2P  | 3P   | 3P   |
| Electrical parameter            |            |     |      |      |
| Classified test                 | II         | II  | II   | II   |
| Uoc max (VDC)                   | 600        | 800 | 1000 | 1500 |
| Uc (VDC)                        | 600        | 600 | 1000 | 1500 |
| In (8/20) us (kA)               | 20         | 20  | 20   | 20   |
| I <sub>max</sub> (8/20) us (kA) | 40         | 40  | 40   | 40   |
| Up (kV)                         | 2.0        | 2.5 | 3.8  | 5.3  |
| I <sub>cpv</sub>                | 20uA       |     |      |      |

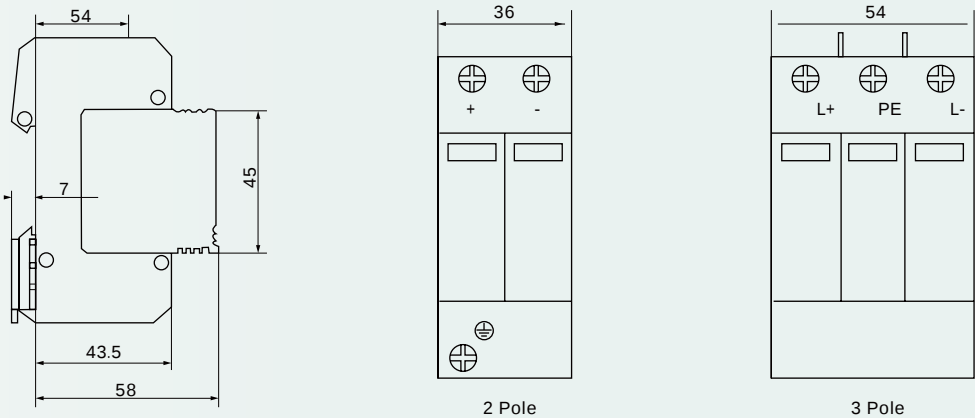
# Remote Signal Contact

|                       |                             |              |              |
|-----------------------|-----------------------------|--------------|--------------|
| Remote signal contact | Maximum working voltage (V) | 250VAC/30VDC | 250VAC/30VDC |
|                       | Maximum working current (A) | 1A (250V/AC) | 1A (250V/AC) |
|                       | 1A (30V DC)                 | 1A (30V/AC)  | 1A (30V/AC)  |

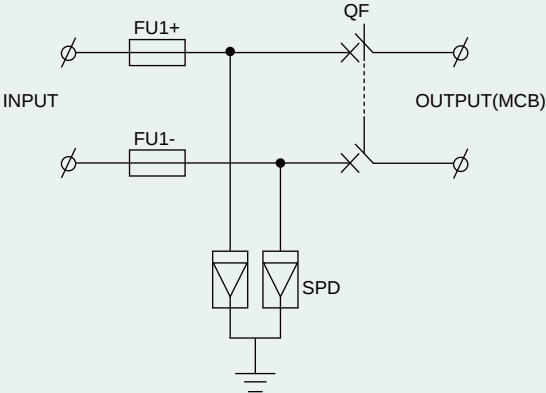
# Installation and Dimensions

|                                    |                       |                                                   |             |
|------------------------------------|-----------------------|---------------------------------------------------|-------------|
| Wiring capacity (mm <sup>2</sup> ) | Hard wire             | 4~25                                              | 4~25        |
|                                    | Flexible wire         | 4~16                                              | 4~16        |
| Stripping length (mm)              |                       | 10                                                | 10          |
| Terminals crwa                     |                       | M5                                                | M5          |
| Torque (Nm)                        | Main circuit          | 3.5                                               | 3.5         |
|                                    | Remote signal contact | 0.25                                              | 0.25        |
| Protection class                   | All profile           | IP40                                              | IP40        |
|                                    | Connection port       | IP20                                              | IP20        |
| Installation environment           |                       | No obvious shock and vibration                    |             |
| Altitude (m)                       |                       | ≤2000                                             | ≤2000       |
| Working Temperature                |                       | -30℃ ~ +70℃                                       | -30℃ ~ +70℃ |
| 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                                                | 54          |
|                                    | H                     | 90                                                | 90          |
|                                    | L                     | 67.6                                              | 67.6        |
| Weight (kg)                        |                       | 0.24                                              | 0.36        |

# Dimensions



DC 550V



DC 1000V

