



**HCDSP1T40  
Surge Protection Device**

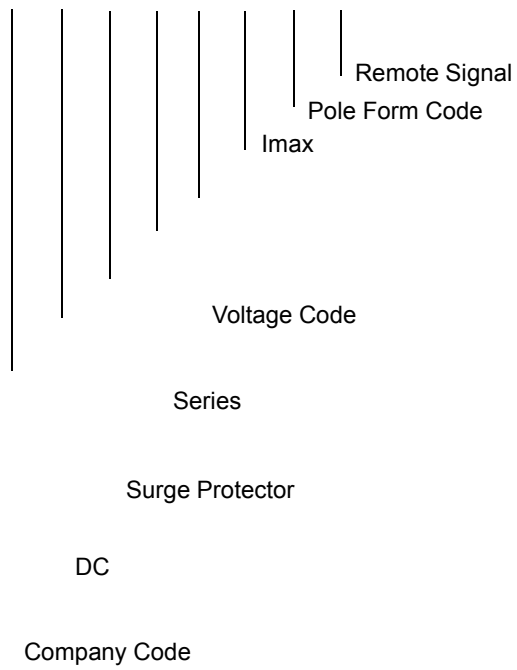
**Product Application**

HCDSP1-1500 surge protective devices have reliable voltage protection level, super surge discharge capacity and safety overload capacity, which are used for lightning protection of photovoltaic power generation system. The product is equipped with high-energy mov chip, so when the system has overvoltage due to lightning stroke or other reasons, it can introduce the voltage into the earth with nanosecond response speed, so as to protect the equipment.

- Type 2 Surge Protector for Photovoltaic;
- Imax: 40kA;
- No leakage, no operating currents;
- EN 50539-11 compliance;
- TUV and CE approved;
- Remote signal (optional);

**Select Code**

HC D SP 1 - □ □ - □ □



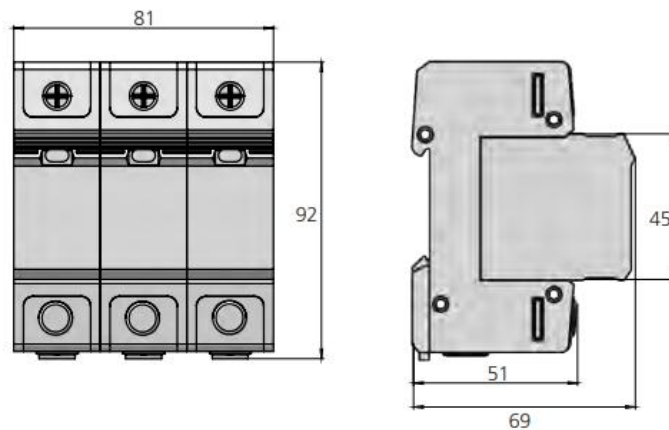
| Type           | Description                            |
|----------------|--|
| Company Code   | <b>HC</b> = Hecheng Electrical         |
| D              | <b>D</b> = DC                          |
| Product Code   | <b>SP</b> = Surge Protector            |
| Voltage Code   | <b>T</b> = 1500VDC                     |
| Imax           | <b>40</b> = 40 KA                      |
| Pole Form Code | <b>3</b> = 3P                          |
| Remote Signal  | <b>R</b> = with RC<br><b>N</b> = NO RC |

**Technical Data**

| Type   |                  | HCDSP1T40-3 ( R/N )         |
|--|------------------|-----------------------------|
| Pole   |                  | 3P                          |
| PV system maximum continuous operating voltage | Ucpv             | 1500 VDC                    |
| Nominal discharge current                      | Pv In            | 20kA                        |
| Maximum discharge current                      | I <sub>max</sub> | 40kA                        |
| Voltage protection level                       | Up               | 4.4kV                       |
| Response time                                  |                  | ≤25ns                       |
| Remote alarm                                   |                  | yes                         |
| Enclosure protection level                     |                  | IP20                        |
| Work environment                               |                  | -40°C~+70 °C                |
| Local alarm indication                         |                  | Green: normal, Red: invalid |
| Installation method                            |                  | 35mm DIN Rail               |
| Installing conductor cross sectional area      |                  | 6~25mm <sup>2</sup>         |

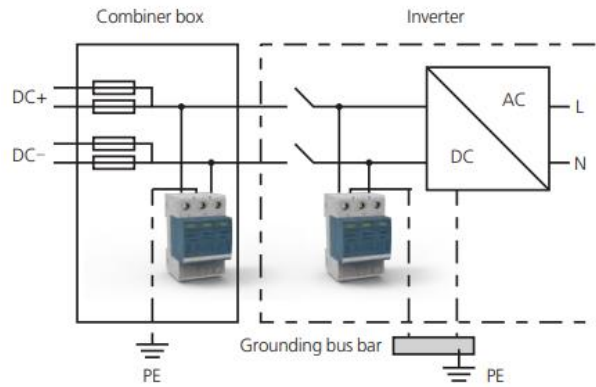
**Dimensions(mm)**

HCDSP1T40 Surge Protective Device



**Wiring diagram**

HCDSP1 Surge Protective Device



| Wiring diagram of indicator light  | Network transmission (normally open) wiring diagram  |
|--|--|
| <p>The diagram shows a dashed box containing three terminals labeled 12, 11, and 14. Terminal 12 is connected to terminal 11. Terminal 11 is connected to one side of a 'Warning light' (represented by a circle with an 'X'). Terminal 14 is connected to a power source labeled '~220V Or other voltage values'. The other side of the warning light is connected to the power source.</p> | <p>The diagram shows a dashed box containing three terminals labeled 12, 11, and 14. Terminal 12 is connected to terminal 11. Terminal 11 is connected to a box labeled 'Network transmission equipment'. Terminal 14 is also connected to the 'Network transmission equipment' box. An arrow points to the right from the equipment box, indicating network output.</p> |