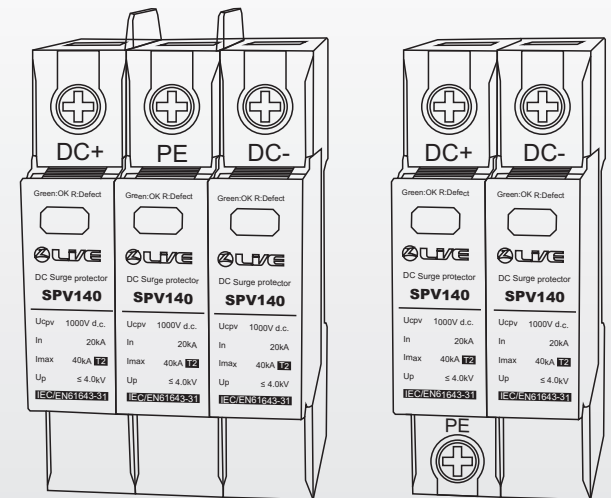


© Product installation and operation guide



DC SURGE PROTECTION DEVICE



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Ensure that these instructions are made available to the end user for future reference.

DC SURGE PROTECTION DEVICE

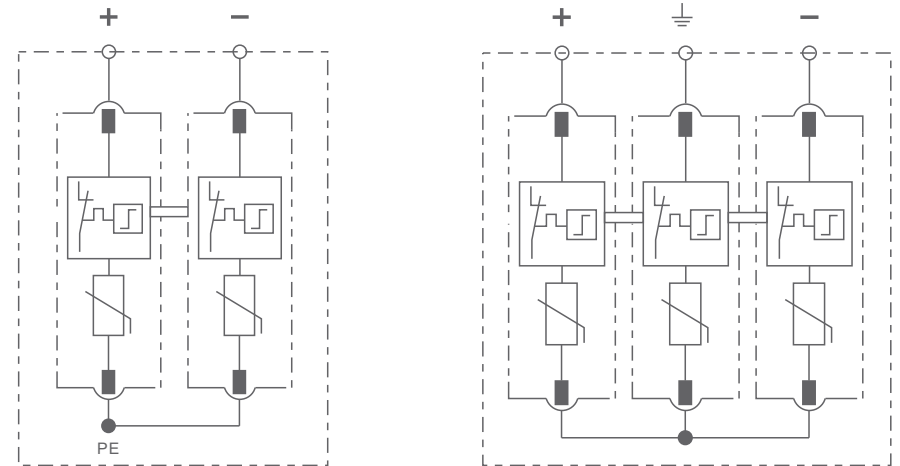
Developed in line with recent advancements, the DC SPD For 1000V circuits. The surge arresters are packed with high-pressure sensors to detect failures and are made from high-quality materials that prevent damage from weather .They comply with BS EN61643-31

- Type 2 DC SPD solar photovoltaic application
- According to IEC /EN61643-31
- Thermal disconnect for fault indication
- Plug-in Protection Module, Easily Installation and Maintainance
- High Energy Varistor , Response Time Less Than 25Nanosecond
- Optional Remote Signalling

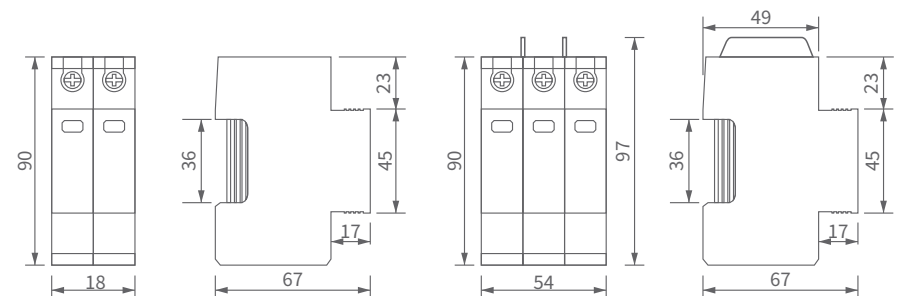
Technical Date

- Type : Type2
- Max Continuous Operational Voltage (U_c) : 1300VDC
- Nominal discharge current (I_n) : 20kA
- Maximum discharge current(I_{max}) : 40kA
- Voltage protection level (U_p) : $\leq 4.0kV$
- Protection degree : IP20
- Ambient Temperature : $-40^{\circ}C \sim +80^{\circ}C$
- Number of Poles : 2Poles, 3Poles

SPD Wiring



Outline Dimensions



Installation

1. Selection of wires: The cross-sectional area of the wire should be $\geq 6\text{mm}^2$, The cross-section of the PE line should be $\geq 10\text{mm}^2$.

2. Terminal connection: Peel off the wire by about 10mm, expose the copper, insert it into the protective terminal, and tighten the terminal screws.

3. After installation and connection, power on When the product is in normal use, when the display window is green, it indicates that the protector is in working state.

*As per BS7671 the minimum sized cable for a Type 2 SPD is $\phi 6\text{mm sq}$. Neutral & Earth cables are supplied with this SPD. Use the crimp supplied on final termination of the prepared Earth cable.

Attention

1. This product is used for lightning protection and belongs to electrical equipment. Please pay attention to personal safety.

2. The product can only be installed and maintained by qualified personnel, who refer to authorized professionals who can debug and install the product system according to safety standards.

3. After the product is put into operation, regular maintenance and inspection should be carried out. If any problems are found, the cause must be identified and repaired or replaced in a timely manner.

Maintenance

The power surge protector needs to be regularly maintained and inspected to ensure reliable operation of the equipment.

1. Check whether the connection of the terminals is reliable, whether there is any electrical corrosion or looseness, and whether the working status indicator is abnormal. If there is any, it needs to be dealt with in a timely manner.

2. After a thunderstorm, the working condition of the protector should be checked in a timely manner and recorded.

Replacement Cartridge

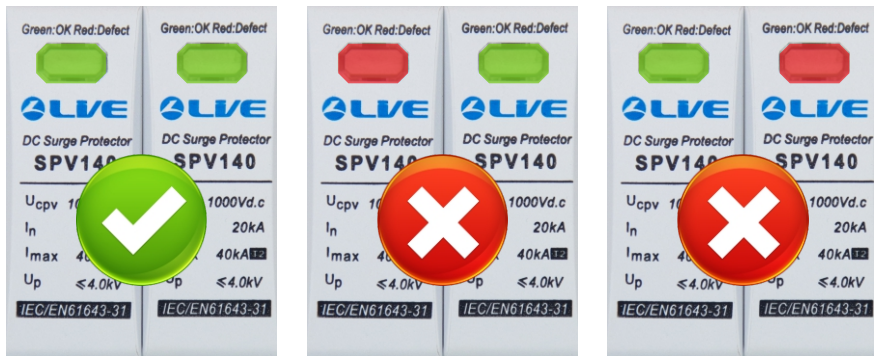
The cartridge is fitted with internal overload protection and can take numerous surges before it will need to be replaced. For replacements contact your local wholesaler .

Cartridge Removal and Re-fitting

Remove the enclosure or consumer unit lid, slide the cartridge upwards from the base. Discard used cartridge in accordance with WEEE regulations.

Cartridge Indication

A full green window indicates a cartridge in good working order. Any red indication in the window means the cartridge is no longer working and must be replaced at the earliest opportunity.



Tips:

Waste electrical products should not be disposed of with household waste. Please recycle where waste disposal facilities exist.

Check with your retailer, wholesaler or local authority for recycling advice.