

How to choose **panel-mounted** surge protection for your home.

A panel-mounted surge protector can help protect your large appliances from surge damage. A licensed electrician must help you obtain and install this device. Here are the minimum specifications to look for and discuss with your electrician:



UL1449 3rd Ed. Listed

- The Surge Protection Device (SPD) must be listed for a type 1 or type 2 location (the location of the main electrical service panel). This standard protects against partial, direct, and indirect lightning discharges and is intended to provide surge protection to help achieve safe and reliable equipment performance.

Peak surge current rating

- Also referred to as maximum transient current or maximum surge.
- Look for an SPD with a rating of 50,000 amperes or higher per phase.

Voltage Protection Rating (VPR)

- When tested with a surge of 6kV @3KA the VPR should be 800 volts or less. The VPR rating shows how much of a 6,000-volt surge is allowed to pass the SPD protection.

Metal Oxide Varistor (MOV) protection

- MOVs redirect the electrical current in the event of a power surge. If the unit has a larger and multiple MOVs, it will provide more durable and longer-lasting surge protection.

Electrical noise protection

- For electromagnetic interference (EMI)
- For radio-frequency interference (RFI)

Cost

- Panel mounted surge protection requires installation by a qualified electrician. Costs for panel mounted surge protection can vary any where from \$300-\$700 for materials and labor. Please consult an electrician for more information.

Phone and cable TV protection

- To protect a TV, VCR, telephone, fax or computer, buy a surge suppressor or with TV cable connectors and/or phone jacks.