

Choosing the right SPD

What is the “best” surge protection device (SPD)?

We recommend the following criteria in choosing your SPD:

- **Warranty:** For complete peace of mind, take into consideration the duration (years) and warranty (dollars).
- **Surge Current Capacity:** This tells you what strength of power surge this unit can handle, the higher the better. For example, the HEPD80 has a Surge Current Capacity of **80kA**. Higher rating generally means you will get a longer life expectancy.
- **NEMA® Rating:** Before you look at product ratings, take note of where your load center is located. QO/ Homeline Surge Protective Devices (Surgebreakers and Plug-on Neutral SPD) are installed inside the indoor or outdoor Square D electrical panel. Square D HEPD models (rated NEMA 4X) are installed inside or outside of any manufacturer's electrical panel regardless if it is indoor or outdoor.
- **Voltage Protection Rating:** This is the measurement of what voltage the SPD allows past it, thus the lower the better.

NOTE: An electrical panel encompasses load centers and combination service entrance devices applicable to residential installations

Surge Capacity Rating Scale



Surge Protection

Homeowners typically have a lot of money invested in expensive electronics and appliances (computers, washers, dryers, stoves, refrigerators, HVAC, etc). Most of these appliances and electronics are left unprotected from surges, which can cost homeowners thousands of dollars to replace if they were to be damaged. The National Electric Code® (2020) requires surge protection to be installed for all dwellings, new construction and retrofit installations.

What are they?

Surges, or “transient voltages”, occur when there is a temporary voltage spike that travels throughout your entire electrical, phone, network and/or cable system. These can be either externally generated (from weather or utilities) or internally generated from devices inside the home, which is the most common type of surge. Up to 100 of these surges can occur per month!

Why should I care?

Some power surges have enough strength to severely damage, if not destroy, home electronics and appliances. Surges happen regularly, though you may not be aware of their occurrence, wearing down and shortening the life of electronics.

How do surge protective devices work?

When a surge protective device senses a transient voltage spike, it uses internal components called Metal Oxide Varistors (MOVs) that act like magnets for the excess voltage, and sends it to the load center's ground wire, before it can reach your home's connected electronics.



20% of surges are externally generated



80% of surges are internally generated



SQUARE D™

Whole Home Surge Protection

Protect what's most important by protecting your whole house from surges

se.com/us/surge

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Schneider
Electric

Essential

Whole House Protection: **22.5kA** surge current capacity

QO & Homeline Surgebreaker Models QO2175SB & HOM2175SB

Installation Flexibility	Requires 2 spaces in the Square D QO or Homeline electrical panel
LED Indicator Lights	Lets you know when SPD is actively helping to protect your home
Peace of Mind	3 Years, \$10,000 connected equipment coverage warranty
Type 2 SPD	



Whole House Protection: **25kA** surge current capacity

Essential Model HEPD25

Installation Flexibility	NEMA 4X rated for indoor/outdoor installations. Use on any brand of electrical panel
LED Indicator Lights	Lets you know when SPD is actively helping to protect your home
Peace of Mind	3 years, \$30,000 connected equipment coverage warranty

Also available: Flush Mount Kit HEPD25MKF

Type 1 SPD



Performance

Whole House Protection: **50kA** surge current capacity

QO & Homeline Surge Plug-on Neutral Models QO250PSPD & HOM250PSPD

Installation Flexibility	Requires 2 spaces in the Square D QO or Homeline Plug-on Neutral electrical panel. No wiring required.
LED Indicator Lights	Lets you know when SPD is actively helping to protect your home
Peace of Mind	5 years, \$50,000 connected equipment coverage warranty
Type 1 SPD	



Whole House Protection: **50kA** surge current capacity

Performance Model HEPD50

Installation Flexibility	NEMA 4X rated for indoor/outdoor installations. Use on any brand of electrical panel. Connect to circuit breaker or directly to the bus
LED Indicator Lights	Lets you know when SPD is actively helping to protect your home
Peace of Mind	3 years, \$50,000 connected equipment coverage warranty

Also available: Flush Mount Kit HEPD58MKF

Type 1 SPD



Ultimate

Whole House Protection: Incorporates **80kA** of surge current protection

Surgebreaker Plus Model SDSB80111

<ul style="list-style-type: none"> Ethernet protection (Computers) Coax protection (Television) Telephone protection 	
Installation Flexibility	NEMA 1 rated for indoor installations. Use on any brand of electrical panel. Connect to circuit breaker or directly to the bus
Peace of Mind	5 years, \$100,000 connected equipment coverage warranty
Type 1 SPD	



Whole House Protection: **80kA** surge current capacity

Ultimate Model HEPD80

Installation Flexibility	NEMA 4X rated for indoor/outdoor installations. Use on any brand of electrical panel. Connect to circuit breaker or directly to the bus
LED Indicator Lights	Lets you know when SPD is actively helping to protect your home
Peace of Mind	5 years, \$75,000 connected equipment coverage warranty

Also available: Flush Mount Kit HEPD58MKF

Type 1 SPD

