



# ***PowerClamp Selection Guide***

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## **Selecting the correct PowerClamp TVSS product:**

There are four Series of *PowerClamp* units, and several models within each Series. The correct model is determined by two factors: (a) where it will be used, and (b) the type of electrical service present at that location.

### **Here are some guidelines to help select the correct SERIES of PowerClamp:**

#### **FOR TRANSMITTER SITES:**

Use a Series 8 at the main electrical panel or the panel that feeds the transmitter.

Use a Series 6 for sub-panels, IF a Series 8 is also installed at the main panel.

#### **FOR STUDIOS:**

Use a Series 8 at the main panel.

Use a Series 4 on sub-panels or on branch circuits.

#### **FOR LOCAL PROTECTION of very sensitive equipment:**

Use a Series 4 on sub-panel or near local outlets. Series 1 plug-in units can also be used for portable applications.

### **Selecting the correct MODEL within a Series:**

There are several models within each Series. The customer should consult with his electrician to determine the type of electrical service and voltage is present at the intended location. Refer to the datasheets specific details.

Model HP800 is specified for **240V 1Ø** is for single-phase, "single wire" service. Service has one Line wire and one Neutral and/or Ground wire. There is 240 volts between Line and Neutral or Ground. This unit is normally for export only.

Models specified for **120/240V 1Ø** are for "split" single-phase service. Service has 3 wires: two Line wires and one Neutral wire. There is 120 volts from either Line to Neutral; 240 volts from Line to Line. (HP401, 402, 601, 602, 801, 802)

Models specified for **120/208V 3Ø WYE** are for three-phase WYE service. Service has 4 wires: three Line wires and one Neutral wire. There is 120 volts from any Line to Neutral; 208 volts from Line to Line. (HP 403, 404, 603, 604, 803, 804)

Models specified for **240V 3Ø DELTA** are for 240 volt three-phase delta service. Service has 3 wires, all are Line. (There is no Neutral.) There is 240 volts between any two Line wires or between any Line and Ground. (HP405, 605, 805)

Models specified for **480V 3Ø DELTA** are for 480 volt three-phase delta service. Service has 3 wires, all are Line. (There is no Neutral.) There is 480 volts between any two Line wires or between any Line and Ground. (HP406, 606, 806)

Models specified for **277/480V 3Ø WYE** are for three-phase WYE service. Service has 4 wires: three Line wires and one Neutral wire. There is 277 volts from any Line to Neutral; 480 volts from Line to Line. (HP407, 408, 607, 608, 807, 808)

Models specified for **120/120/240 3Ø WYE** are special "high-leg" units for 3-phase WYE service. Service has 4 wires: three Line wires and one Neutral wire. There is 120 volts between two of the Line wires and Neutral, but 240 volts from the "high-leg" Line wire to Neutral. (HP 609, 809)

**PowerClamp units that will be installed more than 6' from main electrical panel should have Neutral-to-Ground protection (HP 402, 404, 408, 602, 604, 608, 800, 802, 804, 808). See datasheets for details.**

**IMPORTANT REMINDERS: PowerClamp units should be installed ONLY by a licensed electrician!** Installing a PowerClamp exposes the installer to lethal voltages. All electrical codes must be followed!

**THE WARRANTY IS VOID IF THE WRONG UNIT IS INSTALLED. Excessive voltage will destroy the unit. POWERCLAMP units are made-to-order, and cannot be returned. BE SURE the correct unit is ordered.**