



Power-over-Ethernet (PoE) operation is an excellent choice for powering the EverAlert system due to its reliability and efficiency, but it does come with a different set of requirements than simply using 120V power.



One of the most important considerations is the amount of power that will need to be supplied by your network switch(es). While many switches come with a power supply sufficient to power a small number of devices, most do not come with an adequate power supply to provide PoE+ (30W) power for every port.

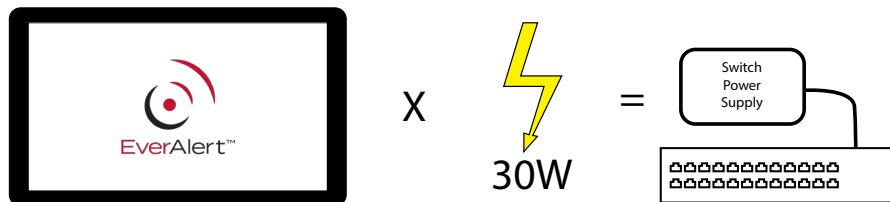
### CALCULATING POWER

Operating an EverAlert Dynamic Display using the EverAlert PoE Kit requires the full 30W PoE+ capacity from your network switch.

This wattage means that your switch will need to support PoE+ power and your power supply will need to have enough capacity to provide 30W to each connected Dynamic Display.

For example, if your site had 40 Dynamic Displays, you would need a minimum of a 1200W power supply for your network switch (assuming all 40 are connected to the same switch).

In other words, to determine the minimum amount of power needed for your network switch, multiply the number of EverAlert devices by 30 to calculate the required wattage. This is also shown in the diagram below.



It's important to note that any other PoE devices powered by your switch will also need to be accounted for.

Using our example of 40 Dynamic Displays, a 1200W power supply to your switch would be adequate for powering your EverAlert system. However, if you were also running 10 Wi-Fi access points which each require 10W, you would need to account for the extra 100W used by those access points.

It's also important to remember that, due to variation in PoE splitter efficiency, only the splitter offered from American Time (EA-POE-KIT) is certified to function properly with EverAlert devices. Other splitters may result in improper function or even damage to the devices, which is not covered under warranty.

For additional information, contact American Time at 1-800-328-8996 or contact your sales representative.

