Cabinet vs Shelter

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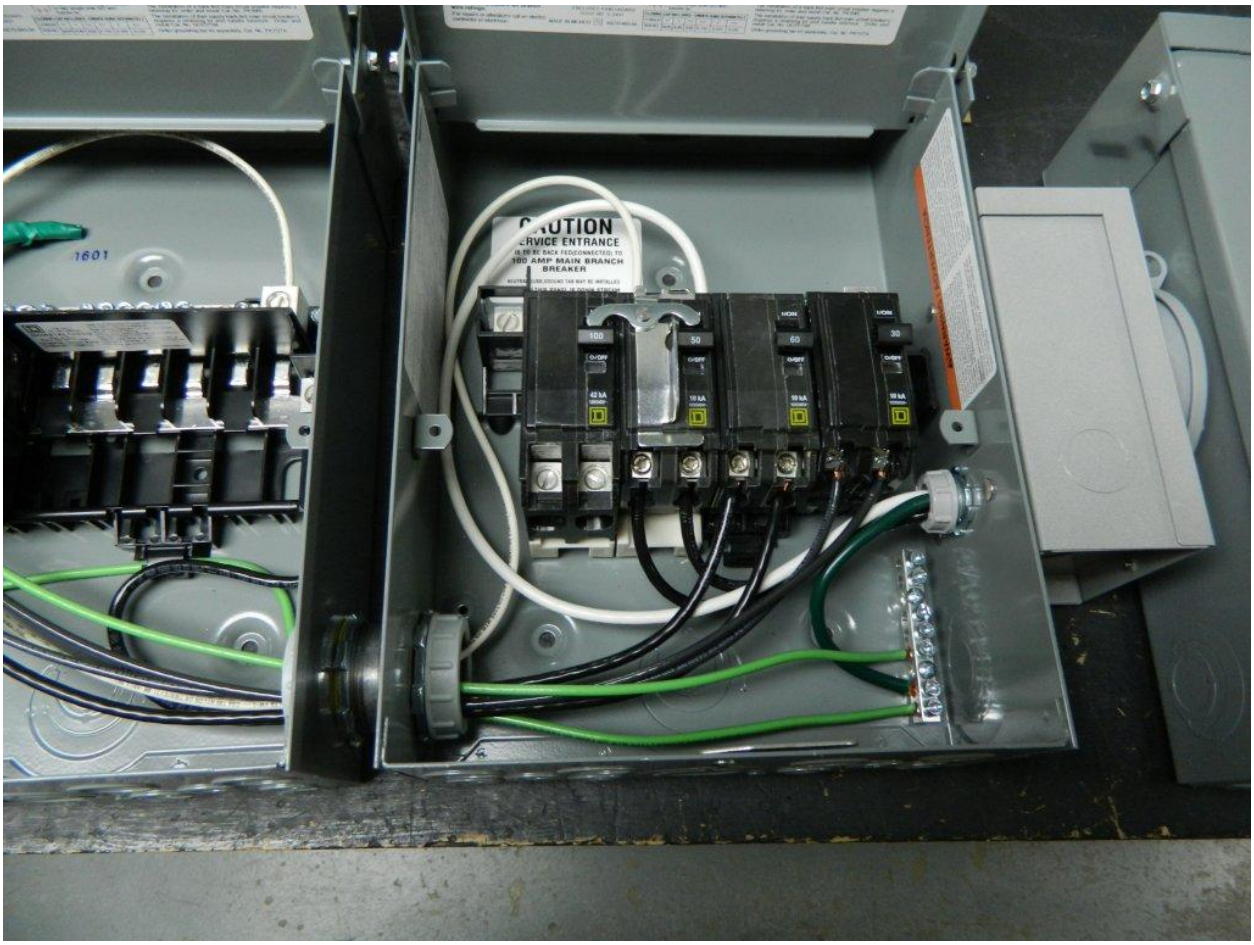
Cabinet vs shelter

Normally when you think of a shelter there are a number of open frame 19 inch telco style racks. Normally a shelter is chosen because of a lot of equipment to support the application. Shelters are expensive which can be built on site or as a pre-fab. The pre-fab is normally delivered on a flatbed trailer. For a remote site this can be a problem if the access road will not support a tractor/trailer.

If there are 3 or less racks it would make sense to use a cabinet instead of a shelter. In any event the first item is to provide a concrete pad on the site. The concrete pad is required for a shelter or a cabinet. The pad normally requires a day to cure, before the cabinet is placed on the pad.

Once the pad is in place the cabinet can be mounted on the pad. Utility power must be connected to the cabinet and any special communication interface must be installed. The cabinet has lifting hooks which can be used with a crane or can be delivered using a helicopter. Once the cabinet is placed on the pad the cabinet must be secured to the pad using bolts in the bottom of the cabinet.



The cabinet electrical load center is designed to support 120/240 single phase power (standard utility power) using a meter base or directly connected. An external generator may be connected in the event of a power failure. The load center main breakers are interlocked to disconnect utility and select external generator. Plenty of space is provided for batteries in the bottom of each rack.

Interconnection between racks is provided with open space between each racks as can be seen in the above picture. Front and rear doors are provided to allow easy access to the racks. An air conditioner may be installed on the side or front or rear door depending on the customers' requirements.

The BTU size of the air conditioner. A general rule is to determine the heat load in watts. In areas that have extreme temperatures the size in BTU may require a little more BTU capability.

BTU = watts*3.41

Air conditioners are available from 1000 BTU to as much as 10,000 BTU.

The cabinet is a much lower cost solution and easier to maintain. It also is a better solution for a remote site.