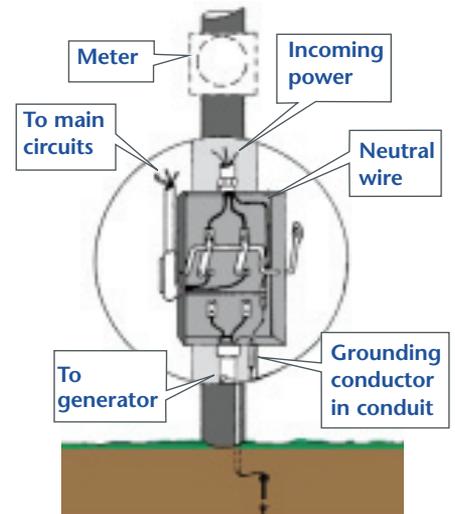


How to Operate a Portable Generator SAFELY

You can use a portable generator to supply electricity to your appliances if an emergency exists during a power outage. But if **used improperly they can kill you** and the people who are restoring power to your building. They also can damage the appliances you connect. Generator sizes vary. Common units can be from 8 to 14 horsepower and capable of handling from

4,000 to 8,400 watts (including starting surge requirements). Prices may range from \$800 to \$3,000. Connecting a generator to the main electrical supply for your house requires the services of a qualified, licensed electrician. Installing the connection and switch (as explained below) can cost \$600 to \$1,000. Before connecting the generator to your household circuit, notify your electric cooperative.



Typical Double Pole, Double Throw Transfer Switch Installation for 120/240 V, Single-Phase Service

WARNING:

If you connect a portable electric generator to the main electrical supply coming into the house, the electrical generator could feed back into your electric cooperative's system and electrocute workers who are repairing the electrical lines.

To avoid back-feeding of electricity into utility systems, you must have a qualified, licensed electrician install a double-pole, double-throw transfer switch (see illustration) between the generator and utility power in compliance with all state and local electrical codes. (A minimum of 10-gauge wiring must be used.)

Your generator might not be large enough to handle the load of all the lights, appliances, TV, etc. at one time. To prevent dangerous overloading, calculate wattage requirements correctly (see chart at right).

DETERMINING WATTAGE REQUIREMENTS

Never exceed the rated capacity of your generator. Overloading can cause serious damage to the generator or appliances. Before operating a generator, list all of the appliances that are going to operate at the same time. Then determine the starting wattage requirements and the running wattage requirements. The starting load lasts only for a few seconds, but is very important when figuring your total wattage to be used. Your generator must be rated to handle the total wattage. Ratings shown here are samples. Wattage requirements vary with different brands of appliances. Be sure to check the name plate on the appliances you plan to use. Always start your largest electric motor first, then plug in other items one at a time.

