

### **SolarTech Power Solutions**

# Power station engine and generator power







#### **Overview**

How does a generator work in a power station?

At the center of nearly all power stations is a generator, a rotating machine that converts mechanical energy into electrical energy by creating relative motion between a magnetic field and a conductor. The energy source harnessed to turn the generator varies widely.

What is the difference between a fuel-powered generator and a power station?

Unlike fuel-powered generators, power stations' runtime and wattage is tied to their battery capacity. Power stations usually top off at 3,500 watts as opposed to the 20,000-watt ceiling of fuel-powered generators. The run time on one charge is also usually shorter than the run time you'll get from one full tank of a fuel powered generator.

What is a portable power station?

Portable power stations, also called gasless generators, store electrical power in an internal battery that must be recharged.

What is a power plant?

A power station (also referred to as generating station or power plant) is an industrial facility for the generation of electric power. Power plant is also used to refer to the engine in ships, aircraft and other large vehicles.

Is a power station better than a generator?

While that's larger than a power bank, power stations are much more portable than generators (and they're quiet as there's no continuously running engine). Plus, they don't burn fuel, so you can use them safely indoors. And if you're into renewables, some models even have solar-powered charging capabilities.

How many Watts Does a power station use?



Power stations usually top off at 3,500 watts as opposed to the 20,000-watt ceiling of fuel-powered generators. The run time on one charge is also usually shorter than the run time you'll get from one full tank of a fuel powered generator. (Of note: Power station runtimes are measured in watt hours (Wh).



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