



# Hydroelectric generator kits for sale

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Suneco Hydro is a leading CE certified manufacturer and supplier of reliable ...

The Harris system is an efficient, durable battery-charging pelton turbine. It is designed to produce usable household power from springs and creeks that are too small to sustain the same level of useful power from a conventional A.C. generating system. Because D.C. power can be stored, the system is collecting power 24 hours a day, a little at a time, to be used as needed.

The average American household (not using electricity to produce heat) requires about 12,000 watt-hours a day, or about 500 watts on a continuous basis. This can be reduced to about 300 watts by just turning lights off when not needed. There are times, however, when as much as 10,000 watts are needed, such as when a refrigerator or vacuum cleaner is started. Because A.C. systems cannot store energy, they must be sized to meet this peak load (requiring up to 40 times as much water as a similarly useful D.C. system). Smaller sized systems save money. D.C. systems are matched to extract power the way that nature delivers it, slowly and steadily.

Multiple nozzle arrangement allows much more water to impact the runner, resulting in greater output at any head, and usable power at a much lower head. All turbines include an output-optimizing circuit allowing maximum efficiency at any flow rate. Multi-nozzle systems include a manifold kit and ball valves for each nozzle.

The 4-nozzle arrangement allows for maximum flow conditions and provides for seasonal flow adjustments.

The pelton type runner is a lost wax cast of silicon bronze. The wheel is 70 to 90% efficient, depending on nozzle size and head. The bucket shape allows high efficiency for nozzles and provides a flow range of over 100 to 1. The wheel has a hydraulic diameter of just over 4.0 inches and each wheel is individually balanced.

The basic system is suitable where battery power can be used directly. Cabins using 12-volt lights, portable radios, televisions, and recreational vehicle type D.C. appliances are easily adapted to the basic system.

This configuration is suitable where higher output is needed and 110-volt, 60-cycle A.C. power is required to operate conventional appliances. Both configurations are compatible with other D.C. charging systems of 12, 24, 48 volts, including photovoltaic cells, wind charging systems and generator operated battery chargers.

Suneco Hydro is a leading CE certified manufacturer and supplier of reliable hydro power systems and micro hydro generator. Each micro hydro generator system includes a turbine, a generator and the appropriate controller for the size and output of the system. We offer competitive pricing and excellent customer service. Our systems come with a 3-year warranty. Suneco Hydro Power Systems are available: Pico systems are rated



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from 300 watts to 3 kw, Micro systems are rated from 5 kw to 10 kw.

Suneco Hydro Customer service includes assistance in matching the right size generator to your specific site and requirements. To use this service, please provide your site's flow rate and head as well as your wattage requirements. Details and specifications of each system are available at the Products tab.

Suneco Hydro has been a Micro Hydro Power Turbine Manufacturer since 1991. In 2016 Suneco Hydro invested in a new factory to manufacture micro hydro power turbines. We brought over 25 years of turbine manufacturing experience to micro power production as well as our R&D expertise. Because we manufacture the component parts of the micro hydro turbines, we have more price advantage and quality control ability than any other micro hydro turbine manufacturer. With the two years growth...

Canyon Hydro designs and manufactures small hydrosystems ranging from 4kW to 25MW. Each system is designed and built at our manufacturing facilities in the USA.

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