



4 inch micro hydro turbine

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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.

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 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. Conventional House – 110 Volt 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.

P.M. Alternator Output in Watts
feet of net head
Max Wattage at Various Volts
Max Effectient Flow at Various Heads
figures in gals/min
feet of net head

This micro hydro solution is based on both proprietary designs in the turbine and drivetrain, and off-the-shelf components, to deliver a complete water-to-wire system. This solution is a self-contained module made of single or twin turbines, generators, electrical cabinet, and is connectable to BOP/Grid. They are assembled and mounted in a self-stabilized concrete structure requiring no civil works. The system power output is 480 V, 3-phase AC, 50 Hz & 60 Hz.

Micro hydro kinetics is a disruptive technology designed to use existing water infrastructure. It is based on water velocity, making it applicable to most waterways; traditional hydropower solutions are head-based and therefore only applicable to selected sites. Emrgy's micro hydro kinetics solution is made for existing canals and waterways, with no civil work required. It is a full plug and play technology, easy and quick to install and/or remove and relocate in the future.

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