

# PROPERTIES

## IDÉNERGIE'S RIVER TURBINE

Powered by the river  
Deploy and install quickly  
Easy to maintain  
Install multiple in network

### USE IT TO

Power your home  
Reduce your energy costs  
Lower your CO<sub>2</sub> emissions



## BUY YOURS ONLINE

Online product showroom  
Content-rich website  
Spare parts and kits  
Product warranties

## CUSTOMER SERVICE

Qualified team  
Fast delivery services  
Preliminary site assessment

### Technical Specifications

Turbine	Darrieus Double Zero debris concept™ Electric self-starting
Axis	Horizontal
Height	26 in - 66 cm
Width	52 in - 132 cm
Weight	200 lbs - 91 kg
Total Surface Area*	4.3 sq ft - 0.40 m <sup>2</sup>
Blade Material	Aluminium

\*varies according to blade-length

### Electrical Configuration

Generator	Three-phase permanent magnet Built-in motor mode Shaftless 100% waterproof
Rated Output	24 - 48 V DC (12V optional) Self-adjusting output voltage
Converter (MPPT)	Built in variable speed drive AC - DC converter Periodic software update

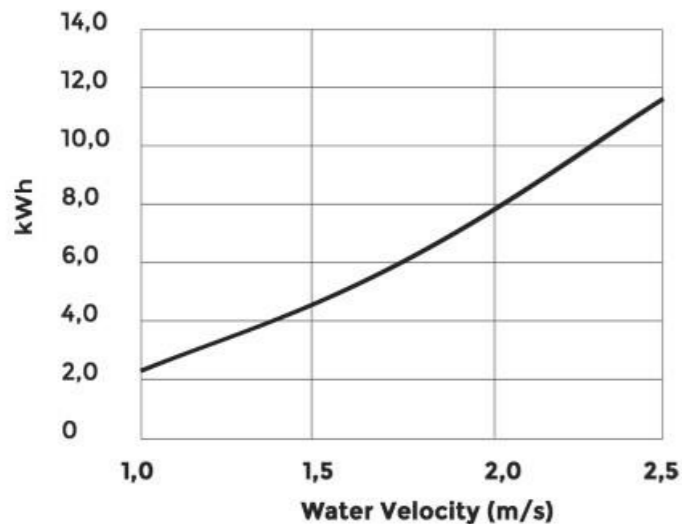
### Performance Ratings

Rated Power Output	100 - 500 W
Cut-in Water Velocity	1.0 m/s (2 knots)
Cut-out Water Velocity	2.5 m/s (5 knots)
Rated RPM	80 to 150 RPM

Annual Energy Production at Speed of	
3.3 f/s - 1.0 m/s	900 kWh
5.0 f/s - 1.5 m/s	1600 kWh
6.7 f/s - 2.0 m/s	2900 kWh
8.3 f/s - 2.5 m/s	4200 kWh

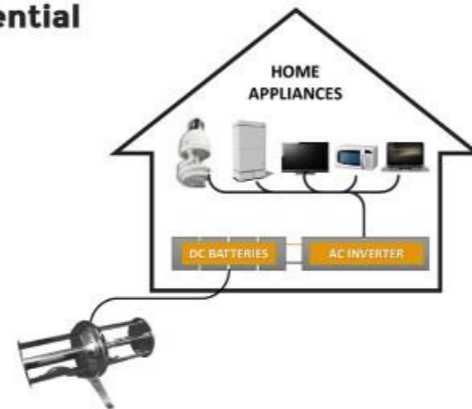
Certifications CSA/UL/CE Available in 2015

Daily Production

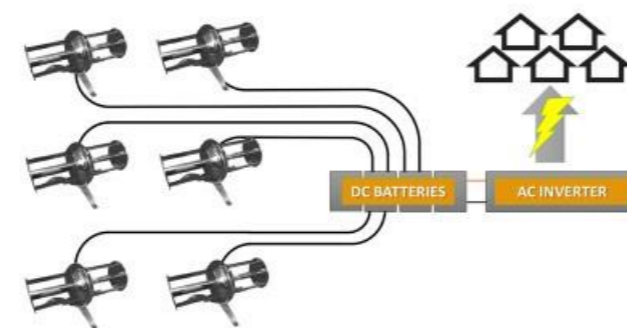


### Installation Example

#### Residential



#### Network



# idénergie

The power of the river within your reach



Produces up to  
12 kWh per day

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# THE ULTIMATE SOLUTION FOR YOUR OFF-GRID ENERGY NEEDS



## THE IDEAL SOURCE OF RENEWABLE ENERGY

Power your basic home electrical appliances from the most reliable and predictable source of renewable energy. The river flows continuously, 24 hours a day and is less subject to weather variations

## CUSTOMIZED FOR YOUR RIVER

Designed to perform even in shallow depths and low velocity flows, the river turbine is durable and will adapt to the specific conditions of your site

## EASY TO INSTALL

Complete the installation in less than half a day thanks to the provided lifting device and easy to connect electrical cables. Install multiple turbines together to satisfy greater energy requirements

## LOW MAINTENANCE

Install it and forget it! Equipped with a unique 100% waterproof generator and turbines developed to avoid the accumulation of debris, Idénergie's river turbine is built to limit maintenance to a minimum

## EQUIPPED WITH A RIVERLUTIONARY CONVERTER

Enjoy the many benefits offered by the built-in smart energy converter: a self-starting turbine, continuous power optimization, remote monitoring capabilities and upcoming additional features

## REDUCE YOUR ENERGY COSTS

Save up to 50% on your annual expenses by replacing you gas-powered generator. At high velocity, the river turbine can produce the power equivalent of up to 12 solar panels

## WHILE RESPECTING THE ENVIRONMENT

Get yourself one of the most ecofriendly renewable energy product on the market. The river turbine interacts minimally with the environment and is 90% recyclable

## IN HARMONY WITH THE RIVER ECOSYSTEM

Scientific studies have demonstrated that the river turbine is harmless to fish. By contributing to the reduction of greenhouse gas emissions, its overall environmental impact is more than positive