

Aerate your Pond with Free Solar Power

Run installed AC pump motors with the PicoCell™ controller

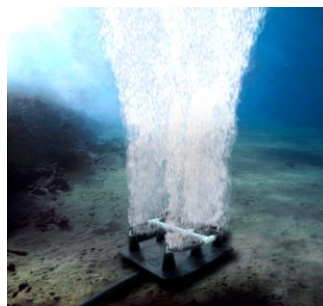
- Run installed or new AC pumps and aerators with free solar power
- Improve pond health, reduce algae, control mosquito populations
- Affordable solar investment sized for your pond
- Upgrades a 1 or 2 speed motor into a soft start, variable frequency drive
- Dramatically reduce or eliminate electricity charges
- 24/7 option available (power blending) with grid energy



PicoCell is a unique solar power controller based on advanced patented technology, which can run any single-or three-phase AC motor directly off of solar panels. PicoCell decreases or eliminates overall electrical power costs by powering your pond fountain, agitator or compressor off of solar power. Using free solar power can improve your pond health by increasing oxygenation and turning over your pond thermocline.



Aerating Fountain



Diffused Aeration Systems



Surface Aerators/Agitators

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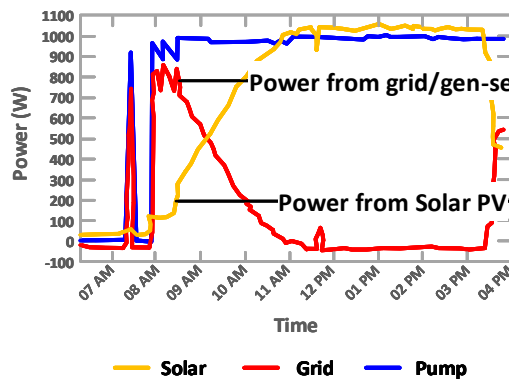
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Intelligent Power Blending with PicoBlender™ 2500

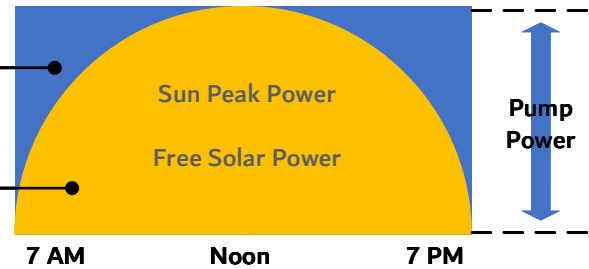
Maintains Full Power 24/7 While Minimizing Power Cost

- Maximize solar energy and electricity use at night or when cloudy
- Seamlessly blends energy between your solar array and the power grid behind the meter
- No circuit panel installation required, plugs in as simple outlet load
- Universal controller – single/three phase, 50/60Hz, 115Vac/230Vac
- Simple installation and intelligent power blending operation

Field validation:



Conceptual:



The PicoBlender 2500 seamlessly blends energy between a solar array and the power grid. It is ideally suited for applications that require 24/7 or some night time operation, particularly in areas with high power costs. The PicoBlender represents a cost effective way to intelligently supplement solar power with controllable night time operation, without the expense of adding batteries.



During full solar irradiance, the PicoBlender will draw maximum power from the PV array. As cloud cover or impending darkness reduce the level of solar irradiance, the system automatically makes up the difference by drawing from the grid. Once it's dark, the system can draw all of its power from the grid. In high energy cost areas this allows for both power firming during the day and full nighttime operation while consuming as little power from the grid as possible.