

Power your Pool Pump with Solar

Run installed-AC pump motors with the PicoCell controller Off-Grid or Grid-Tied

- Run installed or new single-phase or three-phase AC pool pumps with free solar power
- Affordable solar investment sized for your pool pumping system
- Upgrades 1 or 2 speed motor into a soft start, variable speed drive
- Dramatically reduce or eliminate electricity charges
- Small sized box, simple hook up, weather proof, durable and automatic
- Universal controller 1/3 phase, 50/60Hz, 115Vac/230Vac
- Improve Sanitation and performance with longer cycles



PicoCell™
1HP 1-Phase
1.5HP 3-Phase

Description

PicoCell™ is a unique solar power controller based on advanced patented technology which can run any AC pool pump directly off of solar panels. PicoCell automatically decreases or eliminates electrical power costs by powering your pool pump with clean and free solar power. Using solar power can improve your pool performance and sanitation by running the pool pump at higher flow rates for longer periods of time.

PicoCell also provides automatic Variable Speed Drive (VSD) to any pump, while running off of solar. VSD adjusts to changes in power conditions to run optimally throughout the entire filtration cycle, offering increased equipment efficiency and increased service life when compared to single- or two-speed pumps.

PicoCell™, PicoBlender™, and SolProtect™ are trademarks of SunTech Drive LLC

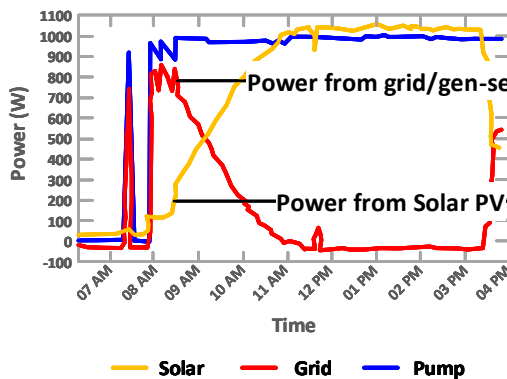
SunTech Drive, 5485 Conestoga Court, Suite 250, Boulder, CO, 80301 www.SunTechDrive.com

Intelligent Power Blending with PicoBlender™ 2500

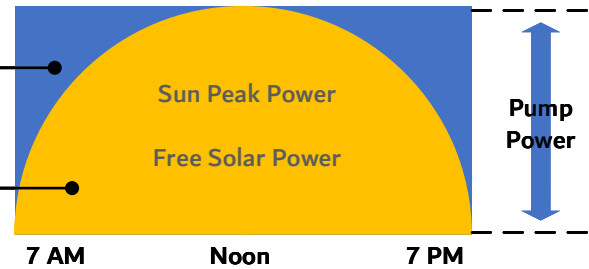
Maintains Full Power 24/7 While Minimizing Power Cost

- 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.