

PicoCell™ 2000 Single/Three Phase Solar AC Motor Controller

Product Highlights:

- Run your standard AC motor using solar power
- Universal solar controller for single/three-phase, 50/60Hz, 115/230Vac AC motors
- Rugged IP66/NEMA4 enclosure for remote applications
- Modular design for ease of installation and maintenance
- Solar VFD allows motors to run longer on solar
- Lower installation costs versus DC solar pumps
- Solar projects can qualify for Tax Credits, Grants or other Local Rebates
- Patented and made in the USA



One universal controller powers your AC motor, for pumps, compressors, fans and other inductive loads. Run up to 1HP single-phase 230Vac motor or up to 1.5HP three-phase 230Vac motor using the power of the sun. Designed for remote off-grid installations, the chassis is IP66 outdoor rated to operate in high temperature, high humidity, and corrosive environments.

SunTech Drive engineers have improved on the function of previous solar controllers to run traditional inductive loads (motors) by replacing old electromagnetic designs with high voltage silicon components and our patented adaptive firmware. One small device now integrates the functions of an inverter, VFD, and MPPT controller. No need to use costly and proprietary DC motors when you can use off-the-shelf components.

The PicoCell supports up to 2 remote sensor inputs allowing for a variety of sophisticated installation scenarios.



AC Motor Pump

Float Switch

PV Solar Array

ELECTRICAL

MPPT operating voltage:	100-380V
Max Solar PV open circuit voltage:	400V
Minimum operating PV voltage:	100V
Max PV panel current in series:	9A
Max Single phase AC motor current:	9A
Max Three phase AC motor current:	7A
Remote sensor inputs:	2

Includes: Over current, overvoltage and over temperature protections. Optional: WiFi communication module

MECHANICAL

Degree of protection:	NEMA4/IP66
Enclosure material:	Aluminum
Operating temperature:	-40—F to 122—F
Dimensions:	10"x5.5"x4"
AC load terminals:	AWG #10-16
Solar terminals:	AWG #10-16
Motor terminal:	AWG #8-16
Float sensor terminals:	AWG #14-20
Cooling:	Passive/no fan

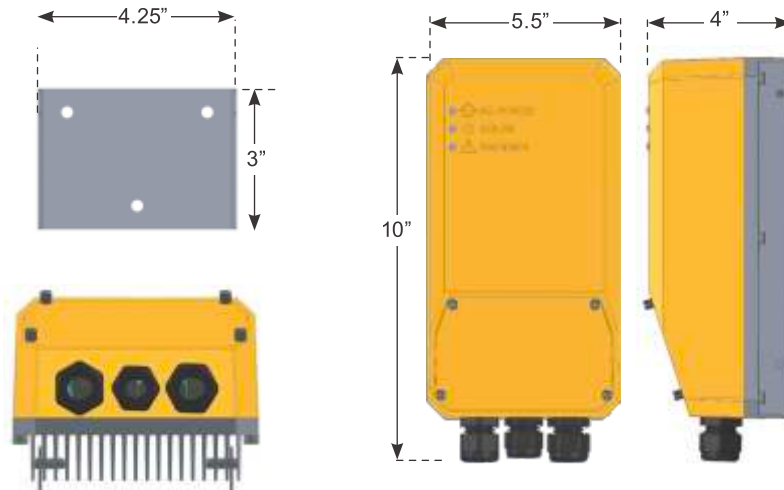
Environmental – Compliance with IEC 60068

IEC 60068-2-1 – Cold

IEC 60068-2-14 – Change of Temperature

IEC 60068-2-2 – Dry Heat

IEC 60068-2-30 – Damp Heat



Typical Applications

- Crop Irrigation
- Livestock Watering
- Pool Pumping & Recirculation Systems
- Lake and Pond Aeration & Fountains
- Aquaculture
- Solar Hot Water Heating & Recirculation
- Salt Water/Residual H2O Evaporation
- Village & Residential Drinking Water

Optional Accessories

- AC Backup transfer switch for generator power source
- Float switches for well pumps and tank overflow
- Pumps
- Solar PV panels and racks
- DC rated disconnects

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