

SunTech Drive AC Backup Solar Motor Controller

The AC Backup unit works in tandem with the PicoCell 2000 Solar Motor Controller to integrate a single-phase AC genset to power applications. The AC Backup automatically switches from solar to generator produced AC power during nighttime or extended overcast and cloudy skies.

PRODUCT HIGHLIGHTS

- Simple solution to provide ac generator backup power to solar applications
- Accessory to the PicoCell controller
- Powers single/three phase motors 50/60Hz 115/230 VAC
- Works in tandem with a single phase AC generator
- Defaults to solar capability when generator does not run

SPECIFICATIONS

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
AC Input:	115/230 VAC 50/60Hz 1ph only 12A max
Output:	100-400 VDC

Mechanical

Degree Of Protection:	NEMA4/IP66
Enclosure Material:	Aluminum
Operating Temperature:	-40°F to 122°F
Dimensions:	10" x 5.5" x 4"
AC Input Terminals:	AWG #10-16
Solar Terminals:	AWG #10-16
DC Output Terminals:	AWG #10-16
Cooling:	Passive/No Fan



AC POWER SOURCE AND SUPPORTED MOTOR SIZES

120 VAC	230 VAC
½ HP	½ HP
¾ HP	¾ HP
	1 HP
	1½ HP (3ph only)

CALL GEOTECH TODAY (800) 833-7958

Geotech Environmental Equipment, Inc.

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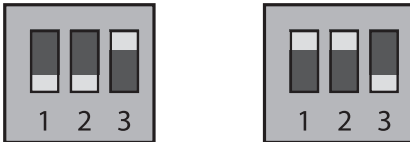
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INSTALLATION

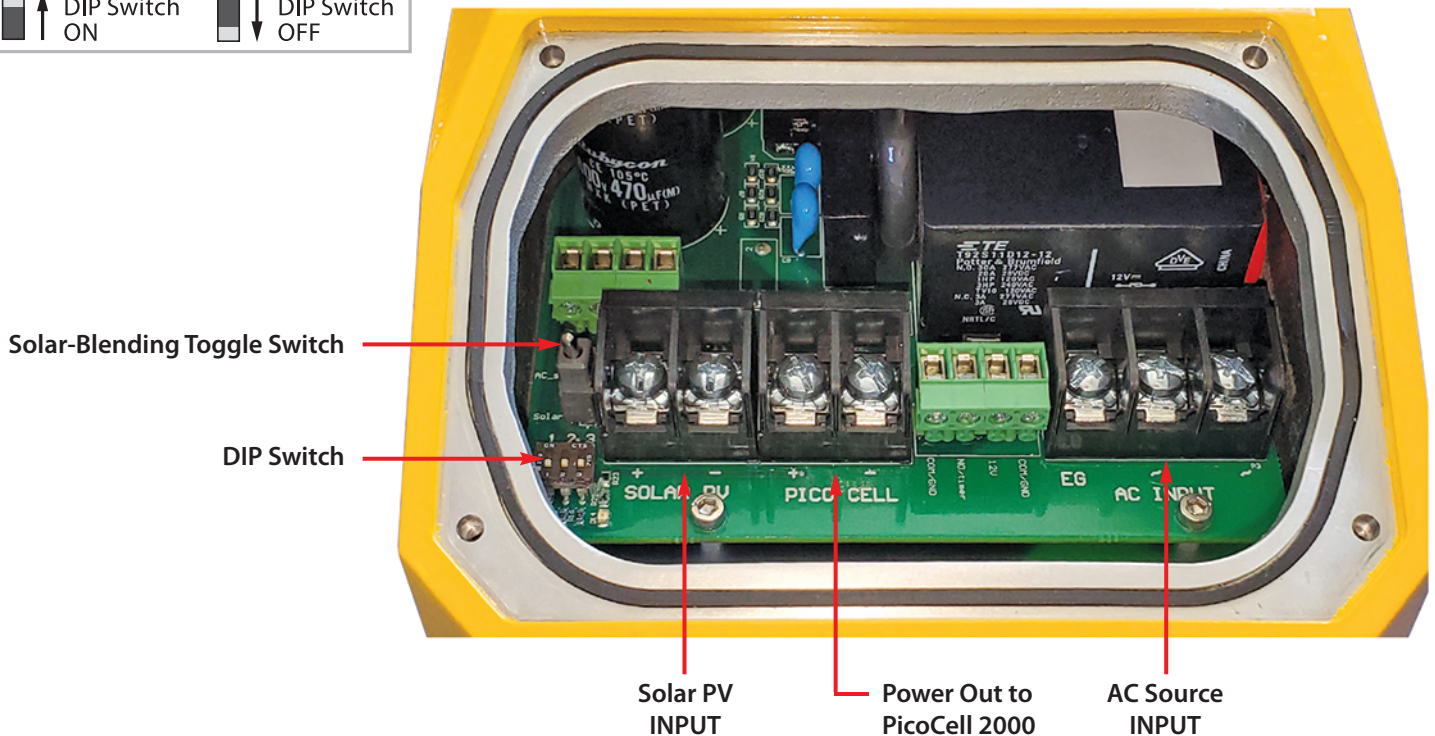
To install AC Backup, all input/output connections must be properly wired per Wiring Diagram, below. On the right is AC Source INPUT (either 115 or 230 VAC single phase source power). On the left is solar PV INPUT from solar panels. The middle connector is DC OUTPUT that is wired to the PicoCell 2000 unit.

DIP switches are used for selecting the AC INPUT voltage source. Note that ON is the upper position. DIP switches should be configured as described below:

DIP Switches



AC Backup Wiring Diagram



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