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**

<table>
<thead>
<tr>
<th>Voltage</th>
<th>1/2 HP</th>
<th>3/4 HP</th>
<th>1 HP</th>
<th>1 1/2 HP (3ph only)</th>
</tr>
</thead>
<tbody>
<tr>
<td>120 VAC</td>
<td>1/2 HP</td>
<td>3/4 HP</td>
<td>1 HP</td>
<td>1 1/2 HP (3ph only)</td>
</tr>
<tr>
<td>230 VAC</td>
<td>1/2 HP</td>
<td>3/4 HP</td>
<td>1 HP</td>
<td>1 1/2 HP (3ph only)</td>
</tr>
</tbody>
</table>

CALL GEOTECH TODAY (800) 833-7958

Geotech Environmental Equipment, Inc.
2650 East 40th Avenue • Denver, Colorado 80205
(303) 320-4764 • FAX (303) 322-7242
e-mail: sales@geotechenv.com • website: www.geotechenv.com
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

Solar-Blending Toggle Switch

DIP Switch

Solar PV INPUT

Power Out to PicoCell 2000

AC Source INPUT

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