Designed for off-grid installations, PicoCell™ motor controllers use solar energy to powers electric submersible pumps, compressors, and other inductive loads. The PicoBlender can be added to seamlessly blend energy between a solar array and a power grid. These small devices now integrate the functions of an inverter and variable frequency drive (VFD) controller into one. No need to use costly and proprietary DC controllers when you can use universal off-the-shelf PicoCell™ and PicoBlender™ components.

**PRODUCT HIGHLIGHTS**

- Run standard AC motors using solar power
- Universal solar controller for single/three phase 50/60Hz, 115/230VAC motors
- Modular design for ease of installation and maintenance
- Solar VFD allows motors to run longer on solar
- Off-grid projects can qualify for tax credits, grants or other local rebates
- Patented and made in the USA

**SPECSIFICATIONS**

**PICOCELL™ 2000**

**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

**MECHANICAL**
- Degree Of Protection: NEMA4/IP66
- Enclosure Material: Aluminum
- Operating Temperature: -40°F to 122°F
- Dimensions: 10” x 5.5” x 4”
- 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

**PICOCELL™ 3500**

**ELECTRICAL**
- Solar PV Open Circuit Voltage: 400V*
- Max PV Panel Current In Series: 9A
- Max Single Phase AC Motor Current: 13A
- Max Three Phase AC Motor Current: 10.5A
- Remote Sensor Inputs: 2
- Analog Sensor Inputs: 2 (4-20mA)

**MECHANICAL**
- Degree Of Protection: NEMA3R
- Enclosure Material: Aluminum
- Operating Temperature: -40°F to 122°F
- Dimensions: 18” x 10” x 5”
- Solar Terminals: AWG #10-16
- Motor Terminal: AWG #10-16
- Float Sensor Terminals: AWG #14-20
- Cooling: Passive/No Fan

**PICOBlender™ 2500 FOR 24/7 POWER BLENDING**

**ELECTRICAL**
- AC Source Operating Voltage: 115-230V
- AC Source Single Phase & Frequency: 50/60Hz
- Solar PV Open Circuit Voltage: 400V
- Max PV Panel Current In Series: 9A
- Max Single Phase AC Motor Current: 10A
- Max Three Phase AC Motor Current: 8A
- Remote Sensor Inputs: 2
- Analog Sensor Inputs: 2 (4-20mA)

**MECHANICAL**
- Degree Of Protection: TYPE 3R
- Enclosure Material: Aluminum
- Operating Temperature: -40°F to 122°F
- Dimensions: 18” x 10” x 5”
- Solar Terminals: AWG #10-16
- Motor Terminal: AWG #10-16
- Float Sensor Terminals: AWG #14-20
- Cooling: Passive/No Fan

**PICOCELL™ 3500**

**ELECTRICAL**
- Solar PV Open Circuit Voltage: 400V*
- Max PV Panel Current In Series: 9A
- Max Single Phase AC Motor Current: 13A
- Max Three Phase AC Motor Current: 10.5A
- Remote Sensor Inputs: 2
- Analog Sensor Inputs: 2 (4-20mA)

**MECHANICAL**
- Degree Of Protection: NEMA3R
- Enclosure Material: Aluminum
- Operating Temperature: -40°F to 122°F
- Dimensions: 18” x 10” x 5”
- Solar Terminals: AWG #10-16
- Motor Terminal: AWG #10-16
- Float Sensor Terminals: AWG #14-20
- Cooling: Passive/No Fan

**CALL GEOTECH TODAY (800) 833-7958**

Geotech Environmental Equipment, Inc.
2650 East 40th Avenue • Denver, Colorado 80205
(303) 320-4764 • FAX (303) 322-7242
email: sales@geotechenv.com • website: www.geotechenv.com
**FRANKLIN 4" MOTOR DATA**

<table>
<thead>
<tr>
<th>HP</th>
<th>Voltage</th>
<th>Phase</th>
<th>Service Factor Amperage (SFA) (A)</th>
<th>Power Factor (%)</th>
<th>Wattage Required (W)</th>
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</thead>
<tbody>
<tr>
<td>1/2HP</td>
<td>230V</td>
<td>3</td>
<td>2.9</td>
<td>70%</td>
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</tr>
<tr>
<td>3/4HP</td>
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<td>3.8</td>
<td>73%</td>
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<td>4.7</td>
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<td>8.1</td>
<td>76%</td>
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</table>

**NATIONAL SOLAR IRRADIANCE**

![Image of National Solar Irradiance Map]

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(303) 320-4764 • FAX (303) 322-7242
e-mail: sales@geotechenv.com • website: www.geotechenv.com
SOLAR ZONES

ZONE 5 = 5.0 - 5.99 kWh/m²/day
ZONE 4 = 4.0 - 4.99 kWh/m²/day
ZONE 3 = 3.0 - 3.99 kWh/m²/day

Note: these are annual averages with higher irradiance metrics seen in the summer months. Seasonal applications may be subject to different zones than what is depicted below.

### ZONE 3

#### Solar Only

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<td>2275</td>
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### ZONE 5

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