**PS2-4000 AHRE-03HHL Energy-2**

Solar Submersible Pump System for 3.5" oil and gas wells

### System Overview
- **Head**: max. 2.300 ft
- **Flow rate**: max. 1.5 USG/min

### Technical Data

#### Controller PS2-4000 Energy
- Solar direct or via PowerPack
- Control inputs for dry running protection, remote control etc.
- Controlling and monitoring
- Programmable pump cycles and flow rates
- Integrated data logger with Bluetooth

<table>
<thead>
<tr>
<th><strong>Parameter</strong></th>
<th><strong>Value</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Power max.</td>
<td>4.0 kW</td>
</tr>
<tr>
<td>Input voltage max.</td>
<td>375 V</td>
</tr>
<tr>
<td>Optimum Vmp**</td>
<td>&gt; 238 V</td>
</tr>
<tr>
<td>Motor current max.</td>
<td>14 A</td>
</tr>
<tr>
<td>Efficiency max.</td>
<td>98 %</td>
</tr>
<tr>
<td>Ambient temp. -40...122 °F</td>
<td>IP68</td>
</tr>
</tbody>
</table>

#### Motor ECDRIVE 1800-AHRE Energy
- Maintenance-free brushless DC motor
- Water filled
- Premium materials, stainless steel: AISI 304/316
- No electronics in the motor
- Plug connection

<table>
<thead>
<tr>
<th><strong>Parameter</strong></th>
<th><strong>Value</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated power</td>
<td>2.3 HP</td>
</tr>
<tr>
<td>Efficiency max.</td>
<td>92 %</td>
</tr>
<tr>
<td>Motor speed</td>
<td>900...3,300 rpm</td>
</tr>
<tr>
<td>Insulation class</td>
<td>F</td>
</tr>
<tr>
<td>Enclosure class</td>
<td>IP68</td>
</tr>
<tr>
<td>Submersion max.</td>
<td>1.640 ft</td>
</tr>
</tbody>
</table>

#### Pump End PE AHRE-03HHL Energy-2***
- Stilling tube for solid reduction
- Premium materials, stainless steel: AISI 304/316
- Tungsten plated rotor
- Helical rotor pump

<table>
<thead>
<tr>
<th><strong>Parameter</strong></th>
<th><strong>Value</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Efficiency max.</td>
<td>58 %</td>
</tr>
</tbody>
</table>

#### Pump Unit PU4000 AHRE-03HHL Energy-2 (Motor, Pump End)
- Borehole diameter min. 3.5 in
- Fluid temperature max. 122 °F

### Standards
- **CE**
- **IEC/EN 61702:1995**

The logos shown reflect the approvals that have been granted for this product family. Products are ordered and supplied with the approvals specific to the market requirements.

**Vmp**: MPP-voltage under Standard Test Conditions (STC): 1000 W/m² solar irradiance, 25 °C cell temperature

***Specify temperature range on order***

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Dimensions and Weights

Controller

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>H1</td>
<td>14 in</td>
</tr>
<tr>
<td>H2</td>
<td>13 in</td>
</tr>
<tr>
<td>W1</td>
<td>8.1 in</td>
</tr>
<tr>
<td>W2</td>
<td>6.7 in</td>
</tr>
<tr>
<td>W3</td>
<td>6.5 in</td>
</tr>
<tr>
<td>D1</td>
<td>4.9 in</td>
</tr>
</tbody>
</table>

Pump Unit

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>42 in</td>
</tr>
<tr>
<td>B</td>
<td>10 in</td>
</tr>
<tr>
<td>C</td>
<td>32 in</td>
</tr>
<tr>
<td>D</td>
<td>3.5 in</td>
</tr>
<tr>
<td>S</td>
<td>1 in</td>
</tr>
</tbody>
</table>

Net weight

- Controller: 13 lbs
- Pump Unit: 31 lbs
- Motor: 15 lbs
- Pump End: 15 lbs

*Vmp: MPP-voltage under Standard Test Conditions (STC): 1000 W/m², solar irradiance, 25 °C cell temperature