PS2 Helical Rotor Solar Pump Systems
Submersible Pump Systems for 4” and 6” Wells

LORENTZ PS2 helical rotor pumps are high quality products designed for drinking water supply, livestock watering and smaller irrigation applications. PS2 helical rotor pump systems deliver water economically, cleanly and reliably, anywhere.

The LORENTZ PS2 range of DC powered helical rotor pumps have been designed specifically to pump water efficiently using solar power. The helical rotor pump is simple, efficient and reliable, pumping water with very low levels of solar power from up to 450m below the ground.

Each system consists of a pump, pump motor and a controller. This modular concept keeps all electronics above ground providing simple servicing, ease of access and a low cost of ownership. PS2 has extensive connectivity options for sensors and switches, in built software applications and data logging to meet all of your pumping needs.

Benefits

- Long life expectancy and proven in service record
- Designed for use in remote and harsh conditions
- Smart modular design for simple and cost effective servicing and repair
- Highest efficiency, pumps more water than the competition, starts earlier in the day and finishes later
- Fast and simple installation
- Cost effective spare parts philosophy
- Large range of pumps to closely match each application and optimise efficiency
- Simple configuration, diagnostics and performance data via free LORENTZ PumpScanner Android™ App

Features

- Engineered in Germany
- Water temperature specific variants to provide the most efficient outputs
- High quality non corroding materials used throughout
- Solar direct connect with AC connection options
- MPPT technology to maximise power use from PV modules
- ECDRIVE DC brushless motors, designed for solar, with over 90% efficiency
- Inbuilt data logger with wireless access
- Multi LED display for simple operation
- Multiple analog and digital inputs and outputs for ultimate connectivity

<table>
<thead>
<tr>
<th>pump system</th>
<th>PS2-200HR</th>
<th>PS2-600HR</th>
<th>PS2-1800HR</th>
<th>PS2-4000HR</th>
</tr>
</thead>
<tbody>
<tr>
<td>max. total dynamic head (TDH) [m]</td>
<td>50</td>
<td>180</td>
<td>250</td>
<td>450</td>
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<tr>
<td>max. flow rate [m³/h]</td>
<td>2.6</td>
<td>2.6</td>
<td>3.9</td>
<td>2.5</td>
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<tr>
<td>solar operation:</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>max. power voltage (Vmp)* [VDC]</td>
<td>&gt; 34</td>
<td>&gt; 88</td>
<td>&gt; 102</td>
<td>&gt; 238</td>
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<tr>
<td>open circuit voltage (Voc) [VDC]</td>
<td>max. 100</td>
<td>max. 150</td>
<td>max. 200</td>
<td>max. 375</td>
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<td>battery operation:</td>
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<tr>
<td>nominal voltage [VDC]</td>
<td>24 and 48</td>
<td>48</td>
<td>96</td>
<td>n.a.</td>
</tr>
</tbody>
</table>

*PV modules at standard test condition: AM = 1.5, E = 1,000 W/m², cell temperature: 25 °C

To find out more visit www.lorentz.de

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All specifications and information are given with good intent, errors are possible and products may be subject to change without notice. Pictures may differ from actual products depending on local market requirements and regulations. A pump system consists of a controller, motor and pump end. Multiple pumps/pump ends are shown to represent the wide range of pumps over 70 that LORENTZ has.