PS15k2 C-SJ30-12
Solar Submersible Pump System for 6" wells
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Solar Submersible Pump System for 6" wells

System Overview

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Head</td>
<td>max. 100 m</td>
</tr>
<tr>
<td>Flow rate</td>
<td>max. 39 m³/h</td>
</tr>
</tbody>
</table>

Technical Data

Controller PS15k2

- Control inputs for dry running protection, remote control etc.
- Protected against overload and overtemperature
- Integrated MPPT (Maximum Power Point Tracking)

- Power max. 15 kW
- Input voltage max. 850 V
- Optimum Vmp** > 575 V
- Motor current max. 24 A
- Efficiency max. 98 %
- Ambient temp. -30...50 °C
- Enclosure class IP54

Motor AC DRIVE SUB 6" 11kW

- Highly efficient 3-phase AC motor
- Frequency: 25...50 Hz
- Premium materials, stainless steel: AISI 304
- No electronics in the motor

- Motor speed 1,400...2,850 rpm
- Power factor 0.87
- Insulation class F
- Enclosure class IP68
- Submersion max. 300 m

Pump End PE C-SJ30-12

- Non-return valve
- Premium materials, stainless steel: AISI 304
- Optional: dry running protection
- Centrifugal pump

Pump Unit PU15k2 C-SJ30-12 (Motor, Pump End)

- Borehole diameter min. 6.0 in
- Water temperature max. 30 °C

Standards

- 2006/42/EC, 2004/108/EC, 2006/95/EC
- IEC/EN 61702:1995, IEC/EN 62253 Ed.1

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.

* PS DataModule is included in all PSk2 controllers and any PS controllers with ~D in their description. ~D variants should be ordered if there is a potential need to use the PS DataModule features in the future as this is not a retrofit option.

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

<table>
<thead>
<tr>
<th>Output [m³/h]</th>
<th>Power [kW]</th>
</tr>
</thead>
<tbody>
<tr>
<td>50</td>
<td>0.75</td>
</tr>
<tr>
<td>60</td>
<td>1.00</td>
</tr>
<tr>
<td>70</td>
<td>1.25</td>
</tr>
<tr>
<td>80</td>
<td>1.50</td>
</tr>
<tr>
<td>90</td>
<td>1.75</td>
</tr>
<tr>
<td>100</td>
<td>2.00</td>
</tr>
</tbody>
</table>

Dimensions and Weights

Controller
- H = 500 mm
- H1 = 450 mm
- H2 = 425 mm
- W1 = 320 mm
- W2 = 290 mm
- D = 9.0 mm
- D1 = 220 mm
- D2 = 250 mm

Pump Unit
- A = 2,145 mm
- B = 711 mm
- C = 1,434 mm
- D = 144 mm
- E = 133 mm
- S = 3 in

Net weight
- Controller: 17 kg
- Pump Unit: 85 kg
- Motor: 58 kg
- Pump End: 27 kg

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