

# PS2-100 AHRP-14S

Solar Submersible Pump System for 3,5" wells

## System Overview

|           |               |
|-----------|---------------|
| Head      | max. 30 m     |
| Flow rate | max. 2.0 m³/h |

## Technical Data

### Controller PS2-100

- Controlling and monitoring
- Control inputs for dry running protection, remote control etc.
- Protected against reverse polarity, overload and overtemperature
- Integrated MPPT (Maximum Power Point Tracking)
- Battery operation: Integrated low voltage disconnect

|                 |              |
|-----------------|--------------|
| Power           | max. 0.10 kW |
| Input voltage   | max. 55 V    |
| Optimum Vmp**   | > 34 V       |
| Motor current   | max. 5.5 A   |
| Efficiency      | max. 98 %    |
| Ambient temp.   | -40...50 °C  |
| Enclosure class | IP68         |

### Motor ECDRIVE 100IEP-AHR-S

- Maintenance-free brushless DC motor
- Water filled
- Premium materials, stainless steel: AISI 304
- No electronics in the motor

|                  |                 |
|------------------|-----------------|
| Rated power      | 0.1 kW          |
| Efficiency       | max. 83 %       |
| Motor speed      | 700...2,500 rpm |
| Insulation class | F               |
| Enclosure class  | IP68            |
| Submersion       | max. 50 m       |

### Pump End PE AHRP-14S\*\*\*

- Non-return valve
- Premium materials, stainless steel: PPS
- Helical rotor pump

|            |           |
|------------|-----------|
| Efficiency | max. 68 % |
|------------|-----------|



### Pump Unit PU100 AHRP-14S (Motor, Pump End)

|                   |             |
|-------------------|-------------|
| Borehole diameter | min. 3,5 in |
| Water temperature | max. 50 °C  |

## Standards



2006/42/EC, 2004/108/EC, 2006/95/EC

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

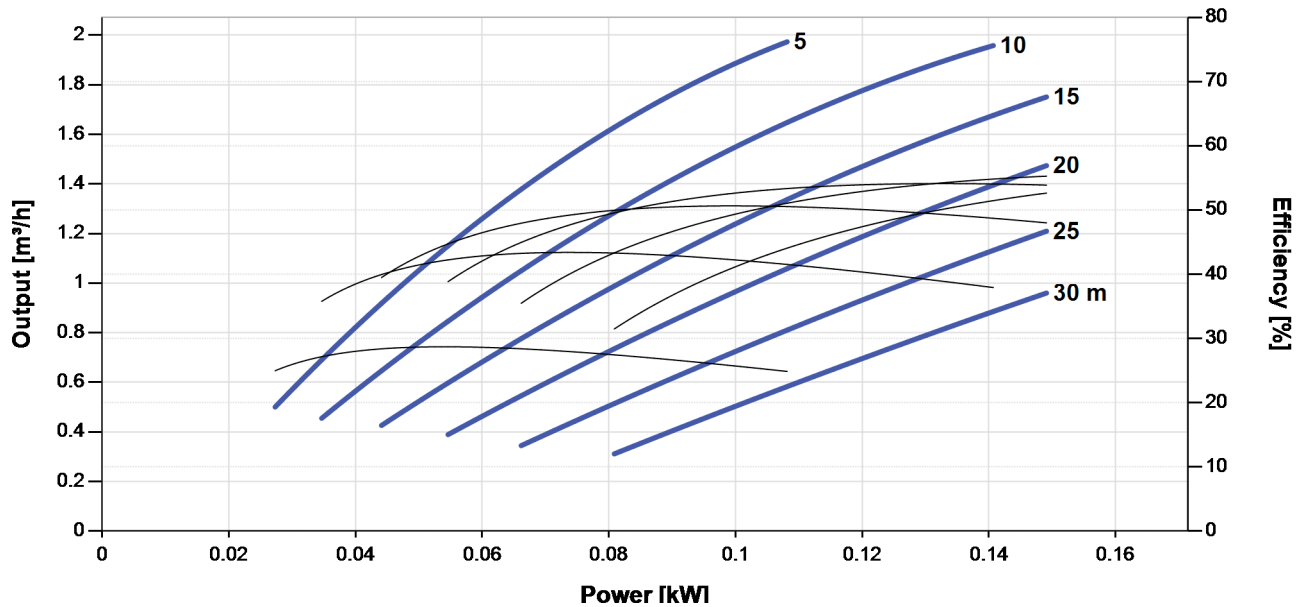


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## Pump Chart

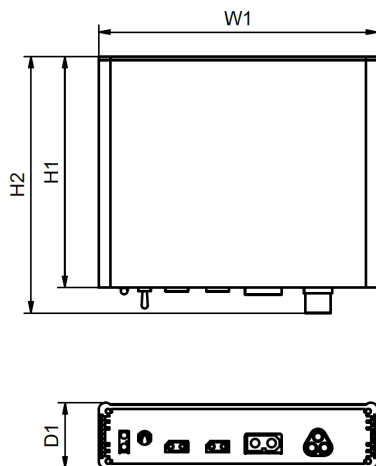
V<sub>mp</sub>\* > 34 V



## Dimensions and Weights

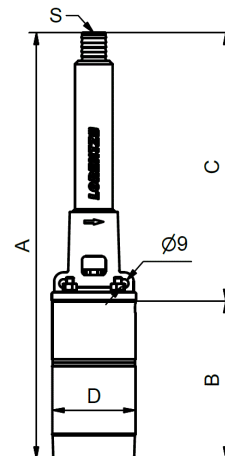
### Controller

H1 = 102 mm  
H2 = 113 mm  
W1 = 122 mm  
D1 = 29 mm



### Pump Unit

A = 407 mm  
B = 157 mm  
C = 250 mm  
D = 88 mm  
S = 1.5 in



|            | Net weight |
|------------|------------|
| Controller | 0.70 kg    |
| Pump Unit  | 8.4 kg     |
| Motor      | 6.8 kg     |
| Pump End   | 1.6 kg     |

\*V<sub>mp</sub>: MPP-voltage under Standard Test Conditions (STC): 1000 W/m² solar irradiance, 25 °C cell temperature

