

# PS2-100 AHRP-07S

Solar Submersible Pump System for 3,5" wells

## System Overview

Head max. 30 m  
Flow rate max. 1.0 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-07S\*\*\*

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

Efficiency max. 54 %



### Pump Unit PU100 AHRP-07S (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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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.

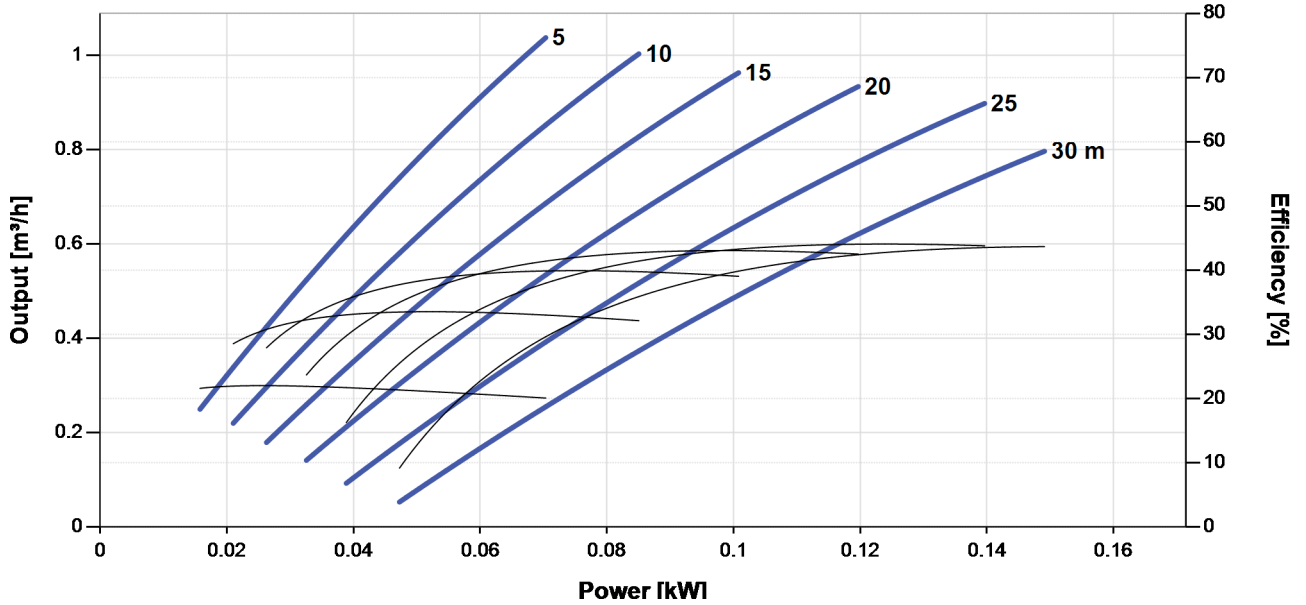
**Sun. Water. Life.**

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### Pump Chart

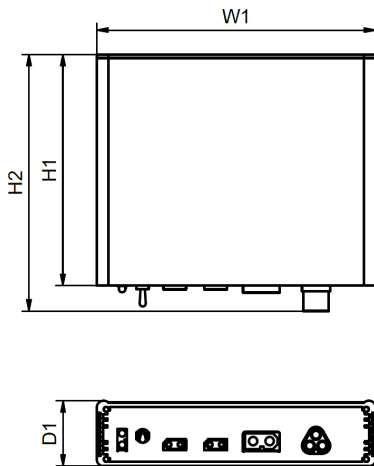
Vmp\* > 34 V



### Dimensions and Weights

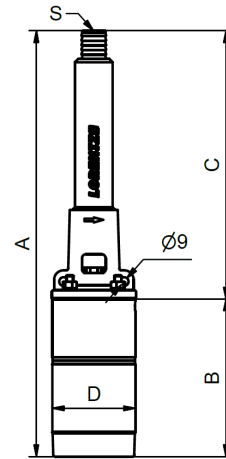
#### Controller

- 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

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