

# PS2-100 AHRP-23S

Solar Submersible Pump System for 3,5" wells

## System Overview

Head	max. 20 m
Flow rate	max. 3.1 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-23S\*\*\*

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

Efficiency	max. 65 %
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### Pump Unit PU100 AHRP-23S (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

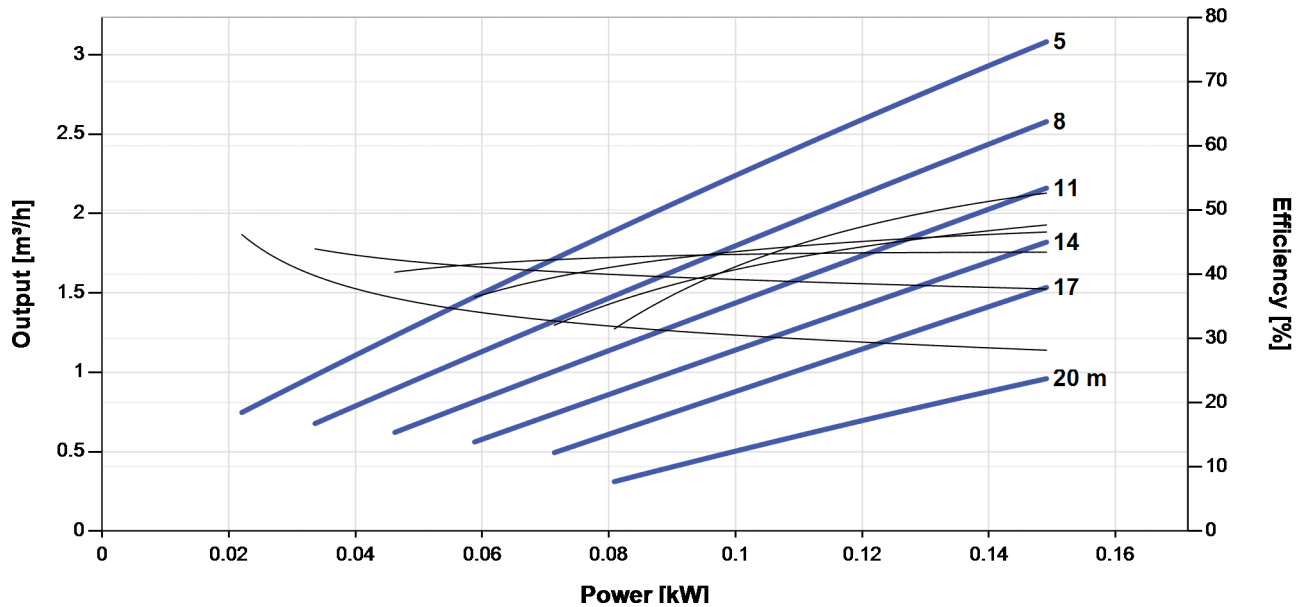


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## Pump Chart

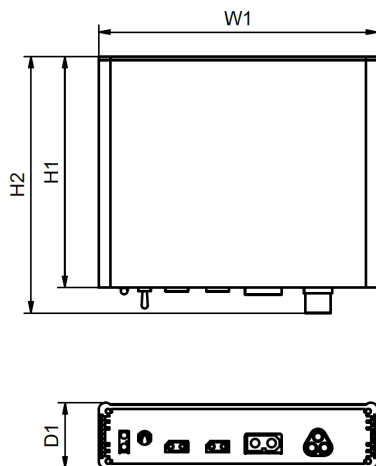
V<sub>mp</sub>\* > 34 V



## Dimensions and Weights

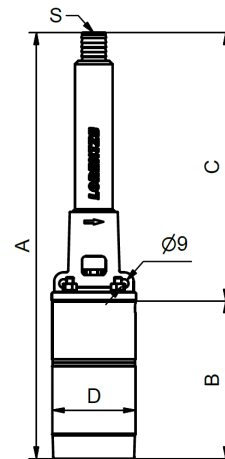
### Controller

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

