

PS2-100 AHRP-23S

Solar Submersible Pump System for 3,5" wells

System Overview

Head	max. 20 m
Flow rate	max. 3.1 m ³ /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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Created by LORENTZ COMPASS 3.1.0.131

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.

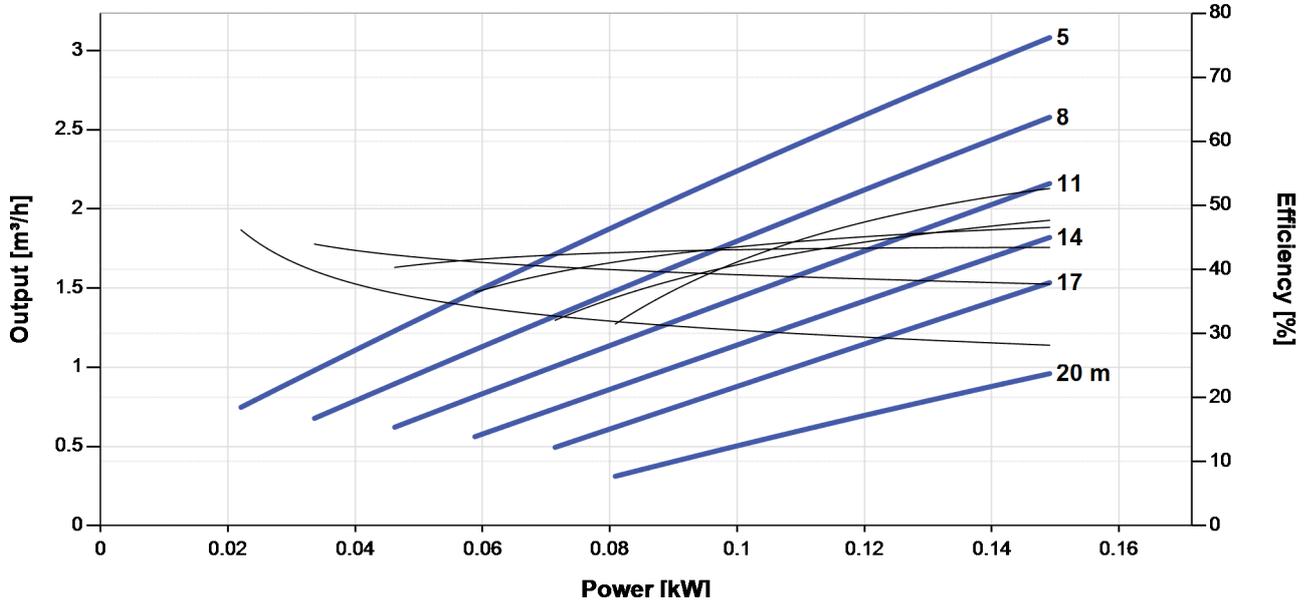
Sun. Water. Life.

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Pump Chart

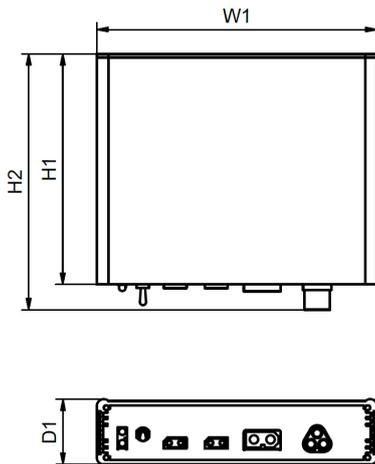
Vmp* > 34 V



Dimensions and Weights

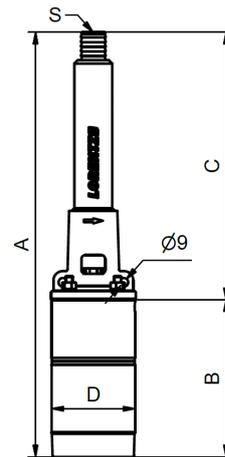
Controller

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