PS2-100 AHRP-07S

Solar Submersible Pump System for 3,5" wells

System Overview

Head	max. 40 m
Flow rate	max. 1.1 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. 0.15 kW
Input voltage	max. 55 V
Optimum Vmp**	> 34 V
Motor current	max. 6.0 A
Efficiency	max. 98 %
Ambient temp.	-40...50 °C
Enclosure class	IP68

Motor ECDRIVE 100-AHR-S

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

Rated power	0.15 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: PPS
- Helical rotor pump

Efficiency	max. 61 %

Pump Unit PU100 AHRP-07S (Motor, Pump End)

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

Standards

CE 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

BERNT LORENTZ GmbH
Siebenstuecken 24, 24558 Henstedt-Ulzburg,
Germany, Tel +49 (0)4193 8806-700, www.lorentz.de

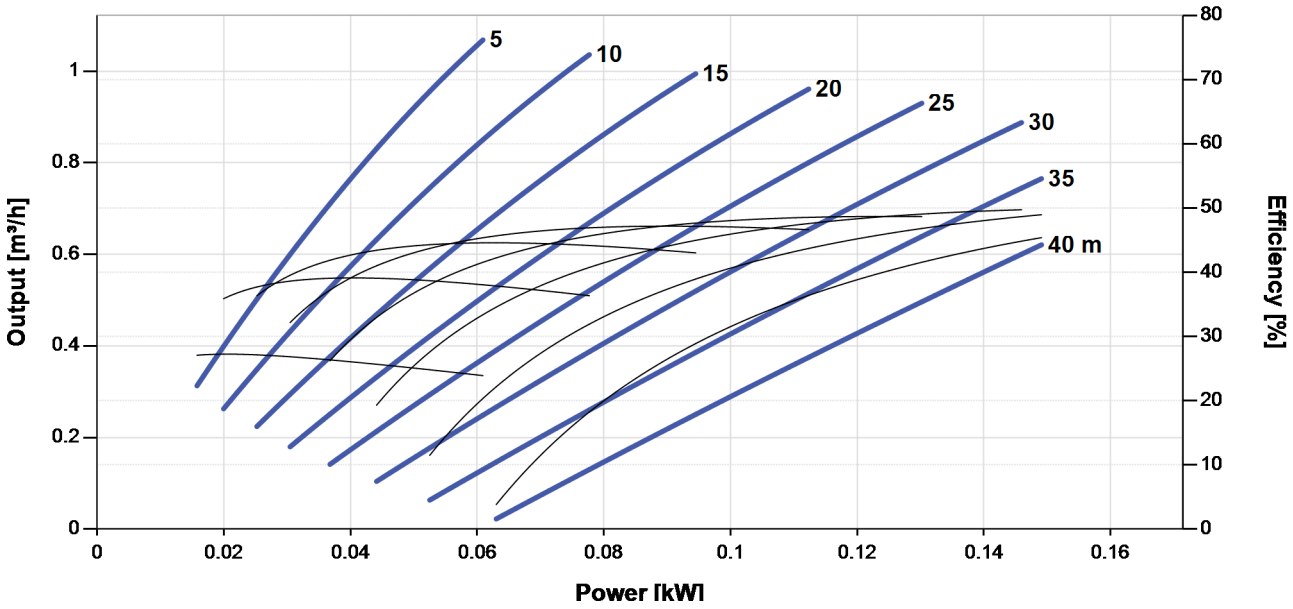
Sun. Water. Life.

PS2-100 AHRP-07S

Solar Submersible Pump System for 3,5" wells

Pump Chart

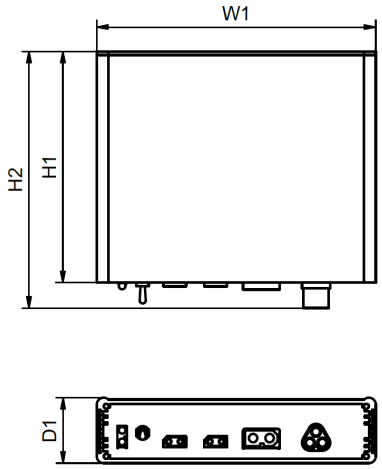
Vmp* > 34 V



Dimensions and Weights

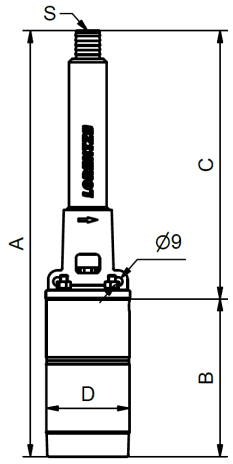
Controller

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



Pump Unit

A = 455 mm
B = 165 mm
C = 290 mm
D = 88 mm
S = 1 in



	Net weight
Controller	0.70 kg
Pump Unit	5.4 kg
Motor	4.5 kg
Pump End	0.90 kg

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

BERNT LORENTZ GmbH
Siebenstuecken 24, 24558 Henstedt-Ulzburg,
Germany, Tel +49 (0)4193 8806-700, www.lorentz.de

Sun. Water. Life.