

PS2-4000 AHRE-03HHL Energy-2

Solar Submersible Pump System for 3.5" oil and gas wells

System Overview

Head	max. 2.300 ft
Flow rate	max. 1,5 USG/min

Technical Data

Controller PS2-4000 Energy

- Solar direct or via PowerPack
- Control inputs for dry running protection, remote control etc.
- Controlling and monitoring
- Programmable pump cycles and flow rates
- Integrated data logger with Bluetooth

Power	max. 4,0 kW
Input voltage	max. 375 V
Optimum Vmp**	> 238 V
Motor current	max. 14 A
Efficiency	max. 98 %
Ambient temp.	-40...122 °F
Enclosure class	IP68

Motor ECDRIVE 1800-AHRE Energy

- Maintenance-free brushless DC motor
- Water filled
- Premium materials, stainless steel: AISI 304/316
- No electronics in the motor
- Plug connection

Rated power	2,3 HP
Efficiency	max. 92 %
Motor speed	900...3.300 rpm
Insulation class	F
Enclosure class	IP68
Submersion	max. 1.640 ft

Pump End PE AHRE-03HHL Energy-2***

- Stilling tube for solid reduction
- Premium materials, stainless steel: AISI 304/316
- Tungsten plated rotor
- Helical rotor pump

Efficiency	max. 58 %
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Pump Unit PU4000 AHRE-03HHL Energy-2 (Motor, Pump End)

Borehole diameter	min. 3,5 in
Fluid temperature	max. 122 °F

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

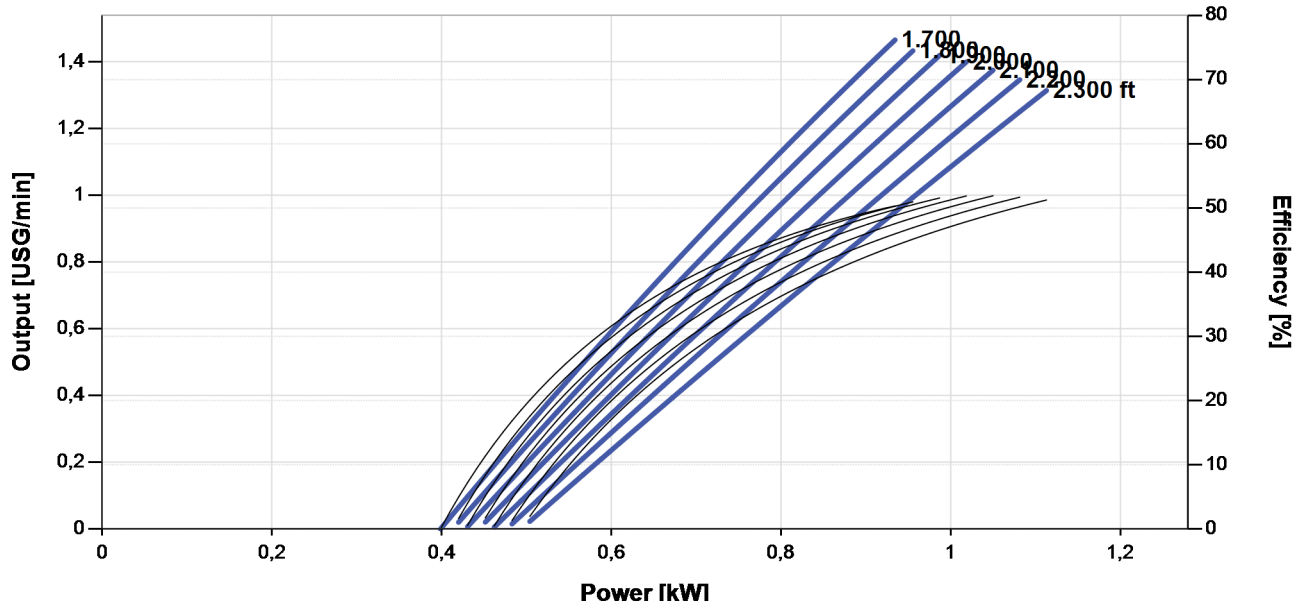


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Pump Chart

Vmp* > 238 V



Dimensions and Weights

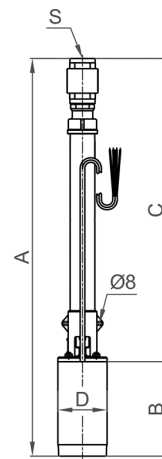
Controller

- H1 = 14 in
- H2 = 13 in
- W1 = 8,1 in
- W2 = 6,7 in
- W3 = 6,5 in
- D1 = 4,9 in



Pump Unit

- A = 42 in
- B = 10 in
- C = 32 in
- D = 3,5 in
- S = 1 in



	Net weight
Controller	13 lbs
Pump Unit	31 lbs
Motor	15 lbs
Pump End	15 lbs

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