

# PS2-1800 AHRE-03HH Energy-2

Solar Submersible Pump System for 3.5" oil and gas wells

## System Overview

Head	max. 1.650 ft
Flow rate	max. 2,0 USG/min

## Technical Data

### Controller PS2-1800 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. 1,8 kW
Input voltage	max. 200 V
Optimum Vmp**	> 102 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-03HH Energy-2\*\*\*

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

Efficiency	max. 65 %
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### Pump Unit PU1800 AHRE-03HH 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/m<sup>2</sup> solar irradiance, 25 °C cell temperature

\*\*\*Specify temperature range on order

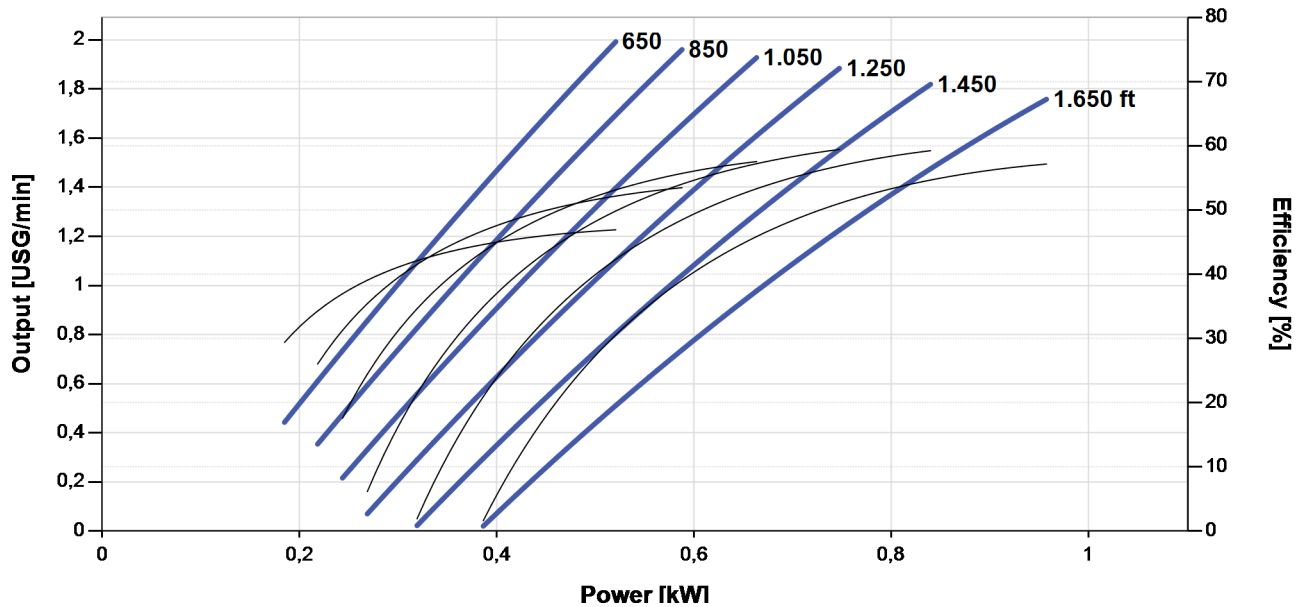


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### Pump Chart

Vmp\* > 102 V



### Dimensions and Weights

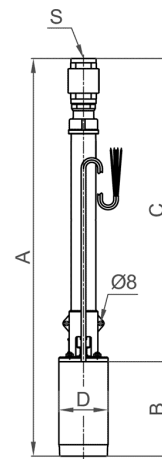
#### Controller

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 = 45 in  
B = 10 in  
C = 35 in  
D = 3,5 in  
S = 1 in



	Net weight
Controller	13 lbs
Pump Unit	26 lbs
Motor	15 lbs
Pump End	11 lbs

\*Vmp: MPP-voltage under Standard Test Conditions (STC): 1000 W/m<sup>2</sup> solar irradiance, 25 °C cell temperature

