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 %

Standards
CE
2006/42/EC, 2004/108/EC, 2006/95/EC
IEC/EN 61702:1995
2006/42/EC

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

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

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