

PS2-1800 HR-32 Energy-1

Solar Submersible Pump System for 4" wells for leachate extraction and remediation

System Overview

Head	max. 160 ft
Flow rate	max. 26 USG/min

Technical Data

Controller PS2-1800 Energy

- 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
- Integrated Sun Sensor

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-HR Energy-1

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

Rated power	1,7 kW
Efficiency	max. 92 %
Motor speed	900...3.300 rpm
Insulation class	F
Enclosure class	IP68
Submersion	max. 492 ft

Pump End PE HR-32 Energy-1***

- Non-return valve
- Premium materials, stainless steel: AISI 304/316
- Helical rotor pump
- Sacrificial anode included

Efficiency	max. 65 %
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Pump Unit PU1800 HR-32 Energy-1 (Motor, Pump End)

Borehole diameter	min. 4,0 in
Fluid temperature	max. 140 °F

Standards



2006/42/EC, 2004/108/EC, 2006/95/EC

IEC/EN 61702:1995, IEC/EN 62253 Ed.1

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

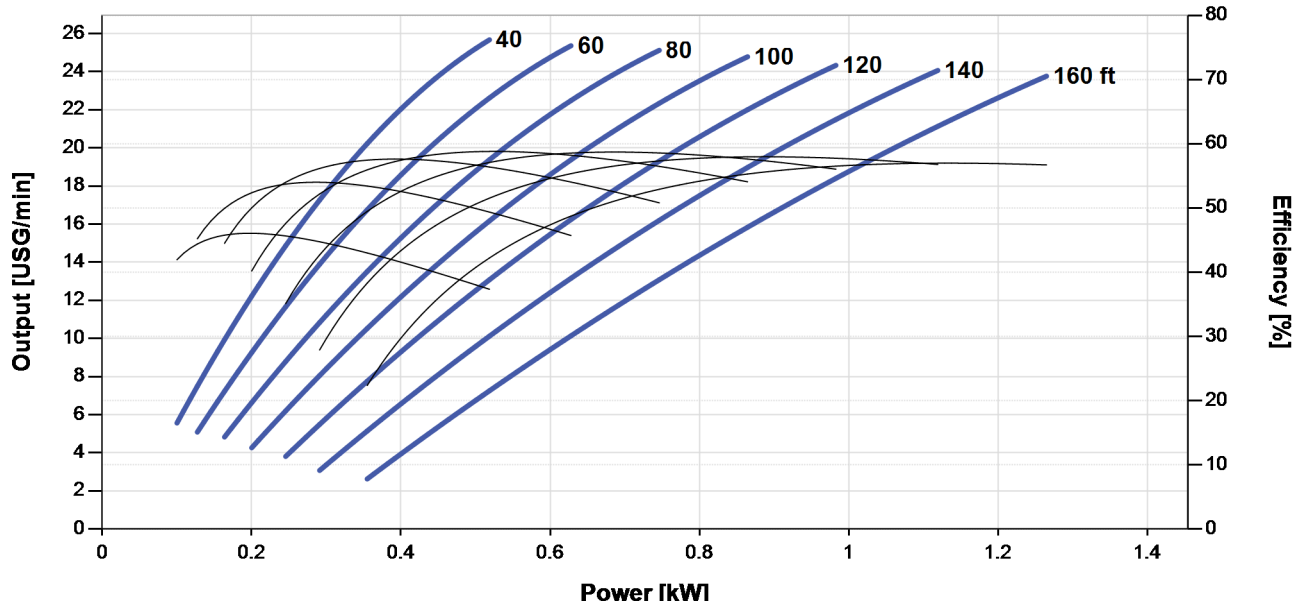


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Pump Chart

Vmp* > 102 V



Dimensions and Weights

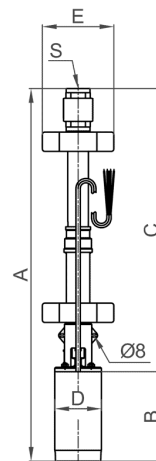
Controller

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 = 42 in
B = 7,3 in
C = 35 in
D = 3,8 in
E = 5,8 in
S = 1,5 in



	Net weight
Controller	13 lbs
Pump Unit	30 lbs
Motor	15 lbs
Pump End	14 lbs

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

**By cutting the rubber spacers the diameter can be adjusted between 6" and 4" wells.

