PS2-600 HR-07 Energy-1
Solar Submersible Pump System for 4" wells for leachate extraction and remediation

System Overview

Head: max. 50 m
Flow rate: max. 1.4 m³/h

Technical Data

Controller PS2-600 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

Power: max. 0.70 kW
Input voltage: max. 150 V
Optimum Vmp**: > 68 V
Motor current: max. 13 A
Efficiency: max. 98%
Ambient temp.: -40...50 °C
Enclosure class: IP68

Motor ECDRIVE 600-HR Energy
- Maintenance-free brushless DC motor
- Water filled
- Premium materials, stainless steel: AISI 304/316
- No electronics in the motor

Rated power: 0.7 kW
Efficiency: max. 92%
Motor speed: 900...3,300 rpm
Insulation class: F
Enclosure class: IP68
Submersion: max. 150 m

Pump End PE HR-07 Energy-1***
- Non-return valve
- Premium materials, stainless steel: AISI 304/316
- Helical rotor pump
- Sacrificial anode included

Efficiency: max. 62%

Pump Unit PU600 HR-07 Energy-1 (Motor, Pump End)
Borehole diameter: min. 4.0 in
Fluid temperature: max. 60 °C

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

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

Created by LORENTZ COMPASS 3.1.0.130
All specifications and information are given with good intent, errors are possible and products may be subject to change without notice. Pictures may differ from actual products depending on local market requirements and regulations.
PS2-600 HR-07 Energy-1
Solar Submersible Pump System for 4" wells for leachate extraction and remediation

Pump Chart

Dimensions and Weights

Controller

\[
\begin{align*}
H_1 &= 352 \text{ mm} \\
H_2 &= 333 \text{ mm} \\
W_1 &= 207 \text{ mm} \\
W_2 &= 170 \text{ mm} \\
W_3 &= 164 \text{ mm} \\
D_1 &= 124 \text{ mm}
\end{align*}
\]

Pump Unit**

\[
\begin{align*}
A &= 1.010 \text{ mm} \\
B &= 190 \text{ mm} \\
C &= 820 \text{ mm} \\
D &= 96 \text{ mm} \\
E &= 147 \text{ mm} \\
S &= 1.25 \text{ in}
\end{align*}
\]

Controller 5.6 kg
Pump Unit 13 kg
Motor 7.0 kg
Pump End 5.5 kg

*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.