

# PS2-4000 HRE-05HHL

## Solar Submersible Pump System for 4" wells

### System Overview

|           |                             |
|-----------|-----------------------------|
| Head      | max. 450 m                  |
| Flow rate | max. 0.92 m <sup>3</sup> /h |

### Technical Data

#### Controller PS2-4000

- 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)
- Integrated Sun Sensor

|                 |             |
|-----------------|-------------|
| 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...50 °C |
| Enclosure class | IP68        |

#### Motor ECDRIVE 4000-HRE

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

|                  |                 |
|------------------|-----------------|
| Rated power      | 4.0 kW          |
| Efficiency       | max. 92 %       |
| Motor speed      | 900...3,300 rpm |
| Insulation class | F               |
| Enclosure class  | IP68            |
| Submersion       | max. 150 m      |

#### Pump End PE HRE-05HHL \*\*\*

- Non-return valve
  - Premium materials, stainless steel: AISI 304/316
  - Helical rotor pump
- |            |           |
|------------|-----------|
| Efficiency | max. 71 % |
|------------|-----------|



#### Pump Unit PU4000 HRE-05HHL (Motor, Pump End)

|                   |             |
|-------------------|-------------|
| Borehole diameter | min. 4,0 in |
| Water temperature | max. 50 °C  |

### 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/m<sup>2</sup> solar irradiance, 25 °C cell temperature

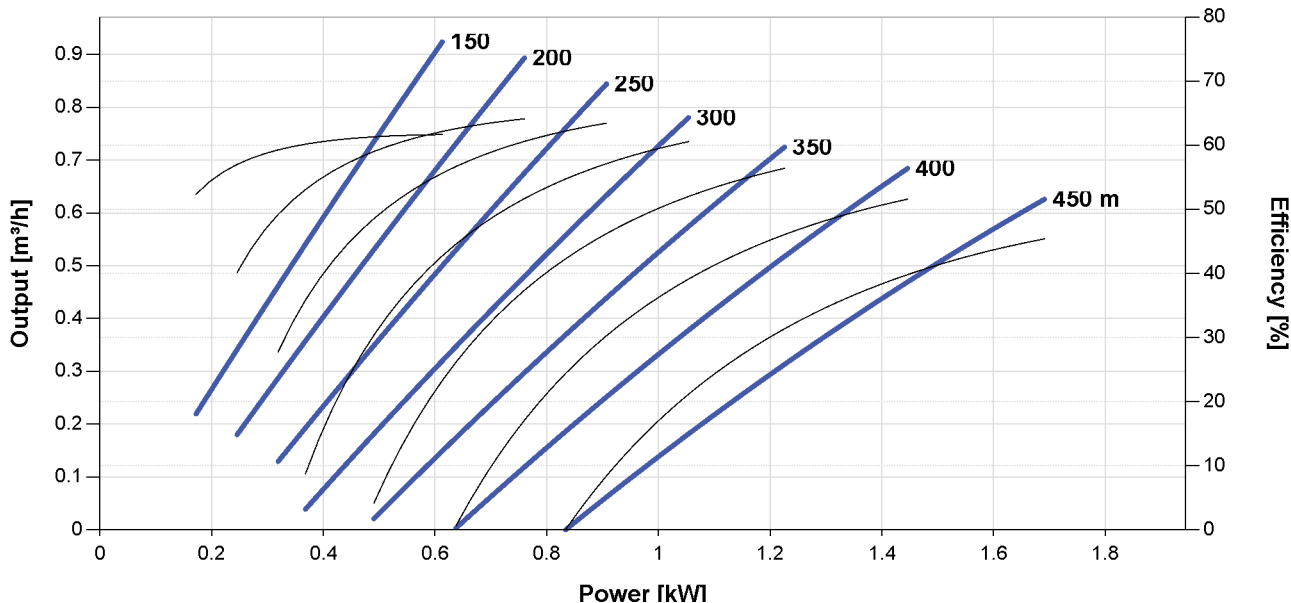
\*\*\*Specify temperature range on order

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## Pump Chart

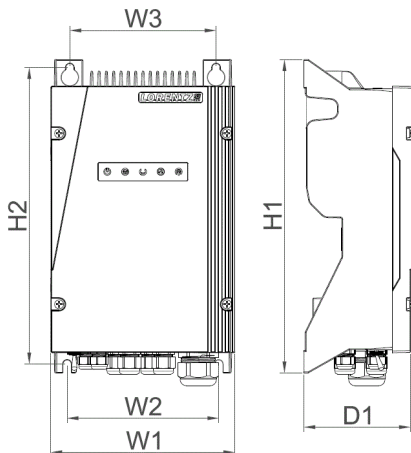
Vmp\* > 238 V



## Dimensions and Weights

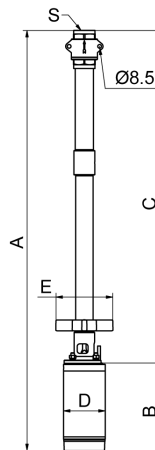
### Controller

- H1 = 352 mm
- H2 = 333 mm
- W1 = 207 mm
- W2 = 170 mm
- W3 = 164 mm
- D1 = 124 mm



### Pump Unit

- A = 1,130 mm
- B = 265 mm
- C = 865 mm
- D = 96 mm
- E = 147 mm
- S = 1.25 in



|            | Net weight |
|------------|------------|
| Controller | 6.1 kg     |
| Pump Unit  | 14 kg      |
| Motor      | 10 kg      |
| Pump End   | 4.4 kg     |

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



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