

PS2-200 HR-07

Solar Submersible Pump System for 4" wells

System Overview

| | |
|-----------|---------------|
| Head | max. 40 m |
| Flow rate | max. 0.37 l/s |

Technical Data

Controller PS2-200

- 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. 0.30 kW |
| Input voltage | max. 100 V |
| Optimum Vmp** | > 34 V |
| Motor current | max. 11 A |
| Efficiency | max. 98 % |
| Ambient temp. | -40...50 °C |
| Enclosure class | IP68 |

Motor ECDRIVE 200-HR

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

| | |
|------------------|-----------------|
| Rated power | 0.4 HP |
| Efficiency | max. 92 % |
| Motor speed | 750...3,300 rpm |
| Insulation class | F |
| Enclosure class | IP68 |
| Submersion | max. 150 m |

Pump End PE HR-07***

- Non-return valve
- Premium materials, stainless steel: AISI 304/316
- Optional: dry running protection
- Helical rotor pump



Pump Unit PU200 HR-07 (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

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

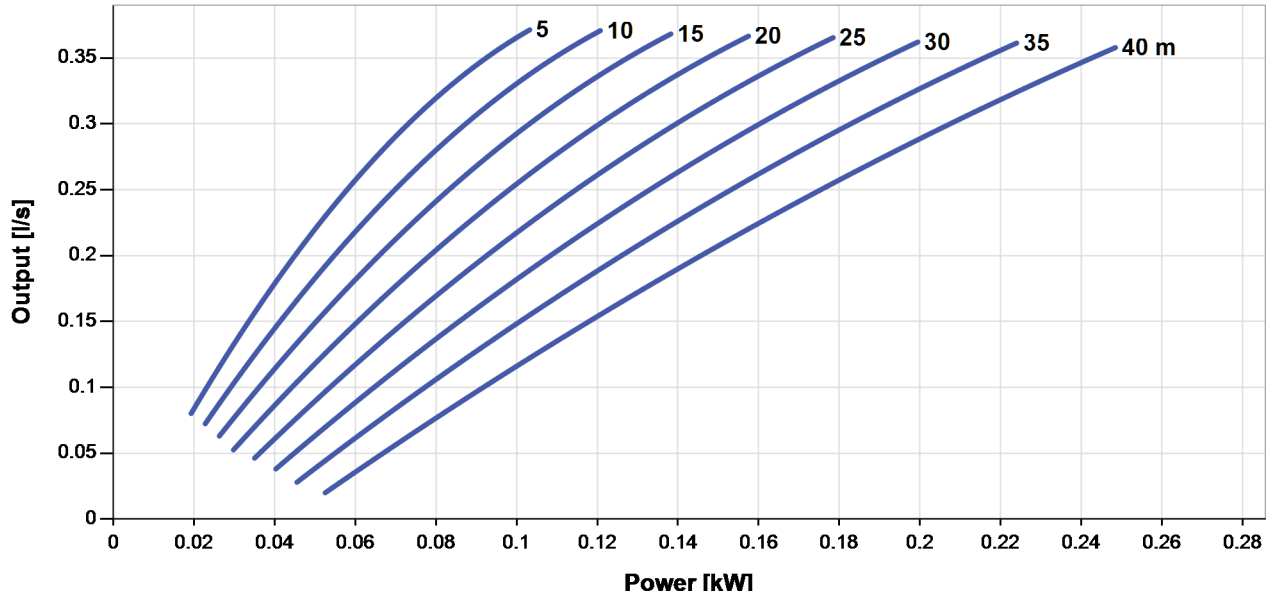


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Pump Chart

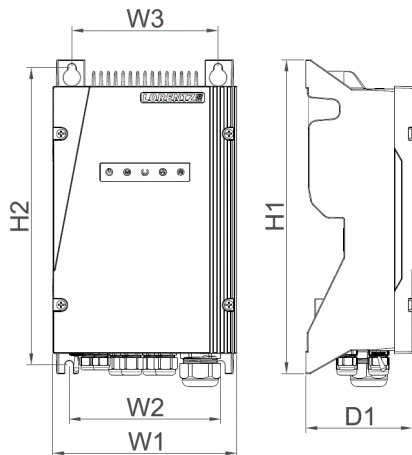
V_{mp}* > 34 V



Dimensions and Weights

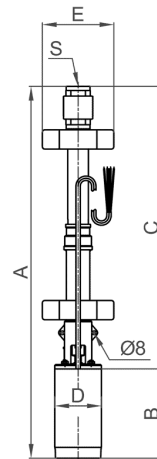
Controller

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



Pump Unit**

A = 771 mm
 B = 185 mm
 C = 586 mm
 D = 96 mm
 E = 147 mm
 S = 1.25 in



| | Net weight |
|------------|------------|
| Controller | 5.6 kg |
| Pump Unit | 12 kg |
| Motor | 7.0 kg |
| Pump End | 4.5 kg |

*V_{mp}: 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.

