

PS1200 HR-03

Solar Submersible Pump System for 4" wells

System Overview

| | |
|-----------|----------------|
| Head | max. 120 m |
| Flow rate | max. 0.43 m³/h |

Technical Data

Controller PS1200

- 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. 1.2 kW |
| Input voltage | max. 200 V |
| Optimum Vmp* | > 102 V |
| Nominal voltage (battery operation) | 96 V |
| Motor current | max. 9.5 A |
| Efficiency | max. 98 % |
| Ambient temp. | -30...50 °C |
| Enclosure class | IP54 |

Motor ECDRIVE 1200-HR

- 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. 250 m |

Pump End PE HR-03**

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

Pump Unit PU HR-03 (Motor, Pump End)

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

Standards



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

Meets the requirements of:
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

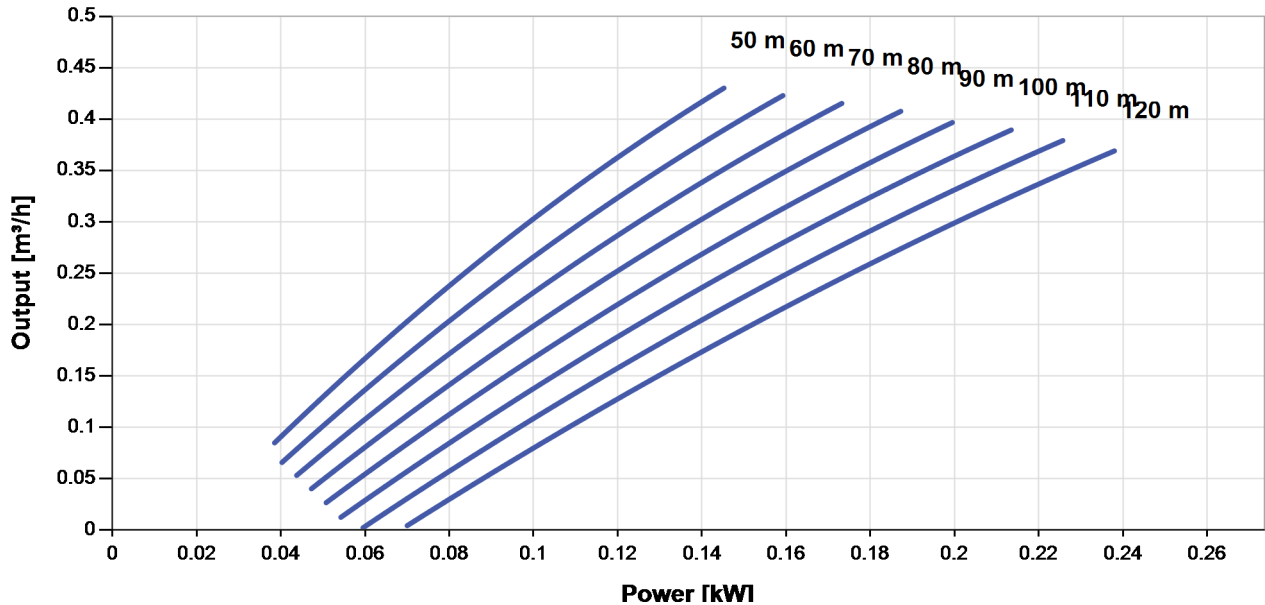


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Pump Chart

V_{mp}* > 102 V



Dimensions and Weights

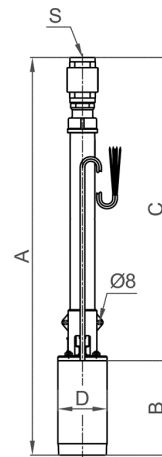
Controller

- H = 396 mm
- H2 = 364 mm
- W1 = 178 mm
- W2 = 156 mm
- W3 = 116 mm
- D = 165 mm
- D1 = 150 mm



Pump Unit

- A = 780 mm
- B = 185 mm
- C = 595 mm
- D = 96 mm
- S = 1.25 in



| | Net weight |
|------------|------------|
| Controller | 4.5 kg |
| Pump Unit | 11 kg |
| Motor | 7.0 kg |
| Pump End | 4.2 kg |

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

