

# PS200 HR-04

## Solar Submersible Pump System for 4" wells

### System Overview

Head	max. 50 m
Flow rate	max. 0.73 m <sup>3</sup> /h

### Technical Data

#### Controller PS200

- 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
Nominal voltage (battery operation)	24 V & 48 V***
Motor current	max. 11 A
Efficiency	max. 98 %
Ambient temp.	-30...50 °C
Enclosure class	IP54

#### 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	0.30 kW
Efficiency	max. 92 %
Motor speed	750...3,300 rpm
Insulation class	F
Enclosure class	IP68
Submersion	max. 250 m

#### Pump End PE HR-04\*\*

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

#### Pump Unit PU HR-04 (Motor, Pump End)

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

### Standards



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

\*\*Specify temperature range on order

\*\*\*Reduced flow rate. Please refer to the pump characteristic chart in COMPASS.

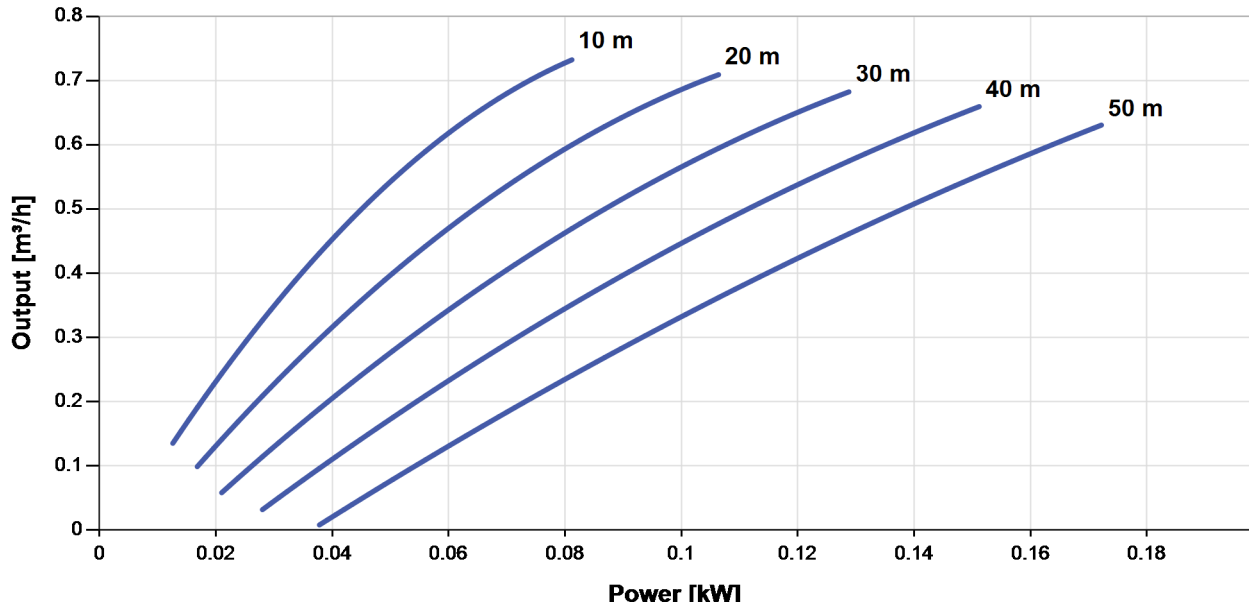


## PS200 HR-04

### Solar Submersible Pump System for 4" wells

#### Pump Chart

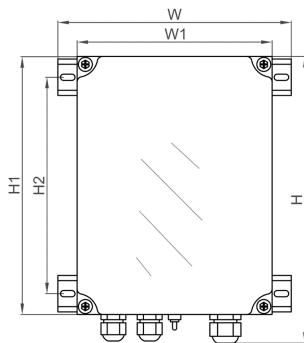
Vmp\* > 34 V



#### Dimensions and Weights

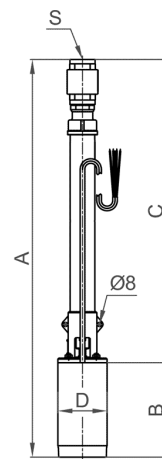
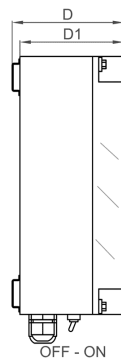
##### Controller

H = 276 mm  
 H1 = 248 mm  
 H2 = 208 mm  
 W = 225 mm  
 W1 = 188 mm  
 D = 108 mm  
 D1 = 100 mm



##### Pump Unit

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



	Net weight
Controller	1.2 kg
Pump Unit	11 kg
Motor	7.0 kg
Pump End	4.2 kg

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

