

# PS1800 HR-05HL

## Solar Submersible Pump System for 4" wells

### System Overview

Head	max. 250 m
Flow rate	max. 0.97 m³/h

### Technical Data

#### Controller PS1800

- 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. 1.8 kW
Input voltage	max. 200 V
Optimum Vmp*	> 102 V
Nominal voltage (battery operation)	96 V
Motor current	max. 14 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

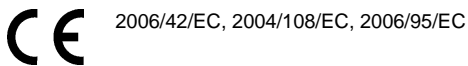
#### Pump End PE HR-05HL\*\*

- Non-return valve
- Premium materials, stainless steel: AISI 304/316

#### Pump Unit PU HR-05HL (Motor, Pump End)

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

### Standards



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

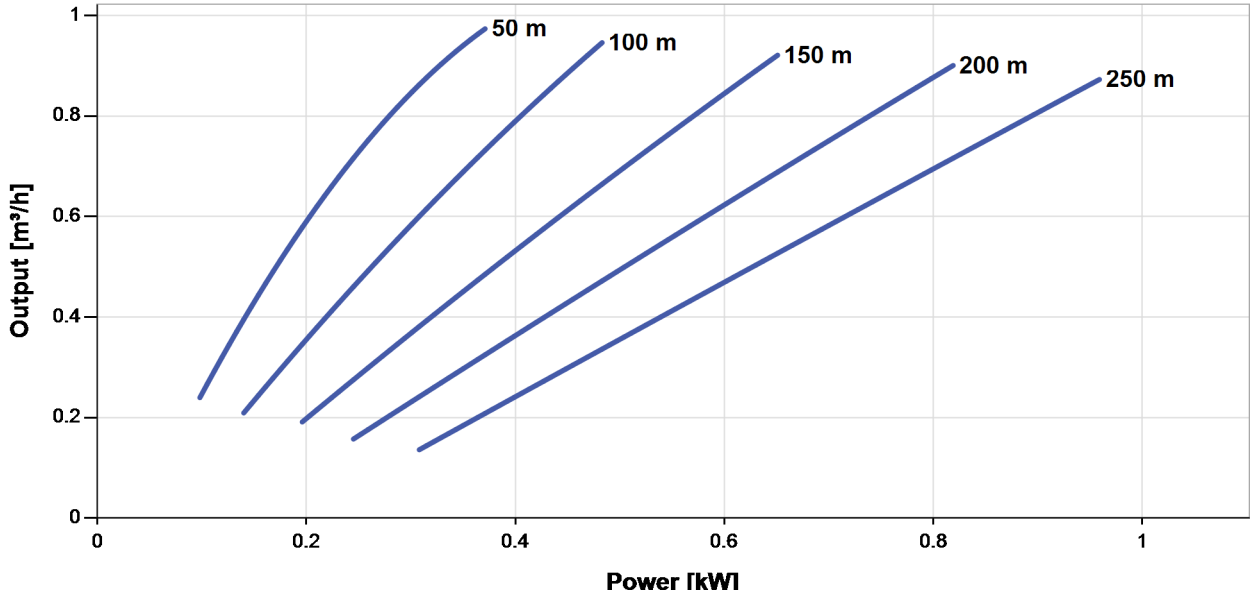


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### Pump Chart

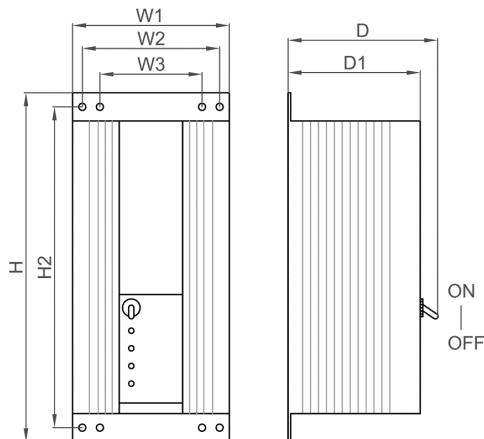
V<sub>mp</sub>\* > 102 V



### Dimensions and Weights

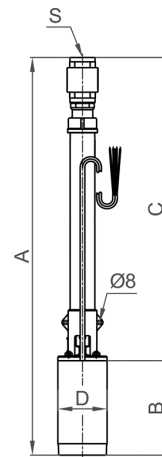
#### Controller

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



#### Pump Unit

A = 879 mm  
 B = 185 mm  
 C = 694 mm  
 D = 96 mm  
 S = 1.25 in



	Net weight
Controller	4.5 kg
Pump Unit	13 kg
Motor	7.0 kg
Pump End	5.5 kg

\*V<sub>mp</sub>: MPP-voltage under Standard Test Conditions (STC): 1000 W/m<sup>2</sup> solar irradiance, 25 °C cell temperature

