

# PS2-1800 HR-07H

## Solar Submersible Pump System for 4" wells

### System Overview

Head	max. 160 m
Flow rate	max. 1,4 m³/h

### Technical Data

#### Controller PS2-1800

- 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
- Integrated Sun Sensor

Power	max. 1,8 kW
Input voltage	max. 200 V
Optimum Vmp**	> 102 V
Motor current	max. 14 A
Efficiency	max. 98 %
Ambient temp.	-40...50 °C
Enclosure class	IP68

#### Motor ECDRIVE 1200-HR / ECDRIVE 1800-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. 150 m

#### Pump End PE HR-07H\*\*\*

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

Efficiency	max. 74 %
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#### Pump Unit PU1800 HR-07H (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/m² solar irradiance, 25 °C cell temperature

\*\*\*Specify temperature range on order

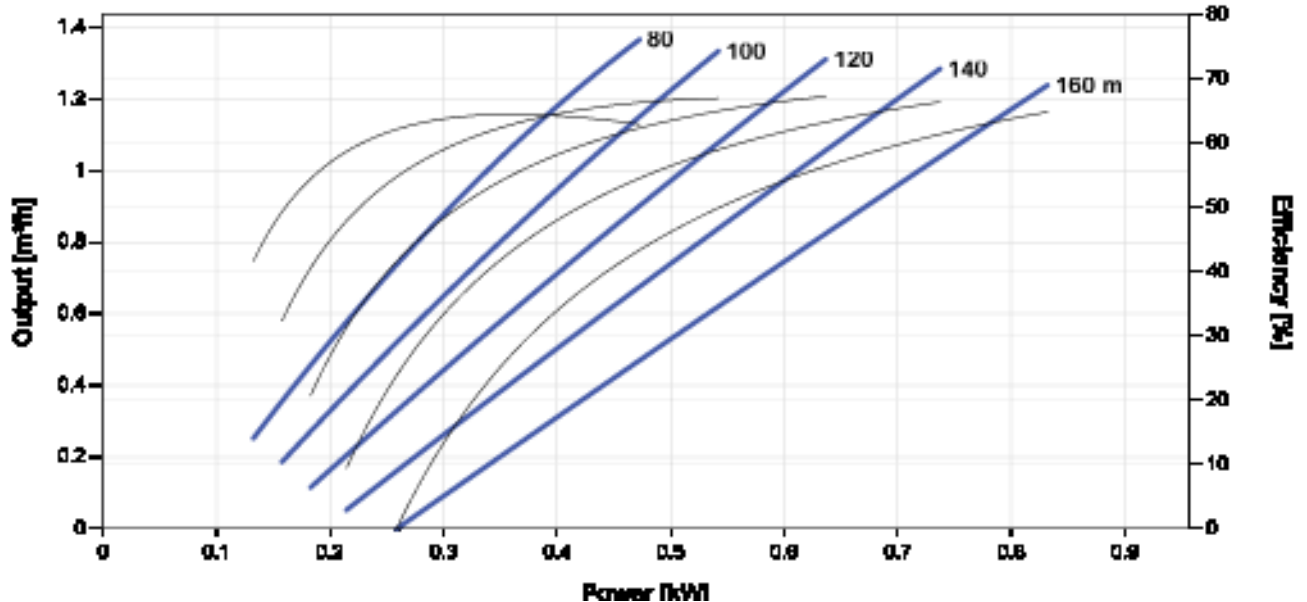


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## Pump Chart

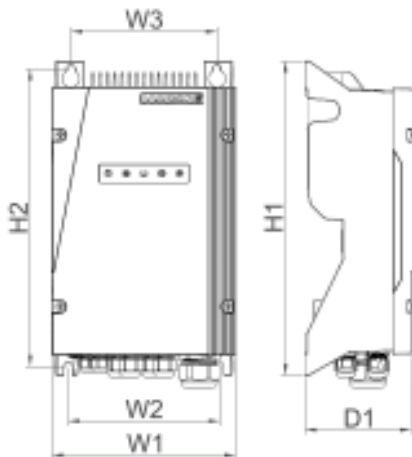
V<sub>mp</sub>\* > 102 V



## Dimensions and Weights

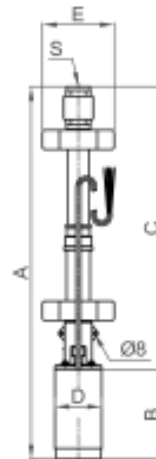
### Controller

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	6,0 kg
Pump Unit	12 kg
Motor	7,0 kg
Pump End	4,5 kg

\*V<sub>mp</sub>: 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.