

# PS1800 HR-10

## Solar Submersible Pump System for 4" wells

### **System Overview**

Head Flow rate max. 80 m max. 2.1 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.	-3050 °C
Enclosure class	IP65

#### 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	9003,300 rpm
Insulation class	F
Enclosure class	IP68
Submersion	max. 150 m

#### Pump End PE HR-10\*\*\*

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

#### Pump Unit PU1800 HR-10 (Motor, Pump End)

Borehole diameter Water temperature

# Standards



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

 
 Type Approved Safety
 IEC/EN 61010-1:2010, IEC 62103:2003, IEC/EN 60034-1:2010, IEC/EN 60335-2-41:2003+A1+A2, IEC/EN 60335-1:2012, EN 62233:2008

 www.tww.com
 IEC/EN 61000-6-4:2007+A1, IEC/EN 61000-6-2:2005

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.

min. 4,0 in

max. 50 °C

\* PS DataModule is included in all PSk2 controllers and any PS controllers with –D in their description. –D variants should be ordered if there is a potential need to use the PS DataModule features in the future as this is not a retrofit option.

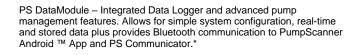
\*\*Vmp: MPP-voltage under Standard Test Conditions (STC): 1000 W/m² solar irradiance, 25 °C cell temperature

\*\*\*Specify temperature range on order

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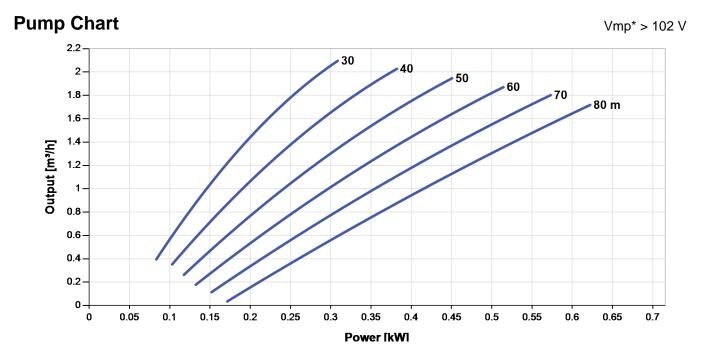


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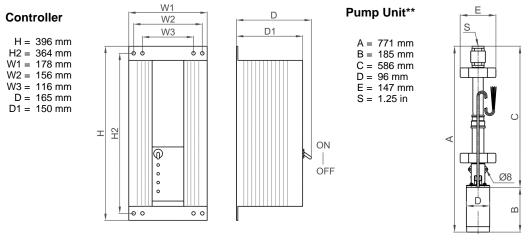


# **PS1800 HR-10**

Solar Submersible Pump System for 4" wells



## **Dimensions and Weights**



	Net weight
Controller	4.5 kg
Pump Unit	12 kg
Motor	7.0 kg
Pump End	4.5 kg

\*Vmp: MPP-voltage under Standard Test Conditions (STC): 1000 W/m<sup>2</sup> solar irradiance, 25 °C cell temperature \*\*By cutting the rubber spacers the diameter can be adjusted between 6" and 4" wells.

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