

PS4000 HR-14HL

Solar Submersible Pump System for 4" wells

System Overview

Head	max. 180 m
Flow rate	max. 2,6 m³/h

Technical Data

Controller PS4000

- Control inputs for dry running protection, remote control etc.
- Protected against reverse polarity, overload and overtemperature
- Integrated MPPT (Maximum Power Point Tracking)

Power	max. 4,0 kW
Input voltage	max. 375 V
Optimum Vmp*	> 238 V
Motor current	max. 15 A
Efficiency	max. 98 %
Ambient temp.	-30...50 °C
Enclosure class	IP54

Motor ECDRIVE 4000-HR

- Maintenance-free brushless DC motor
- Water filled
- Premium materials, stainless steel: AISI 304/316
- No electronics in the motor

Rated power	3,5 kW
Efficiency	max. 92 %
Motor speed	900...3.300 rpm
Insulation class	F
Enclosure class	IP68
Submersion	max. 250 m

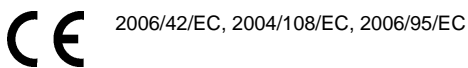
Pump End PE HR-14HL **

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

Pump Unit PU HR-14HL (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

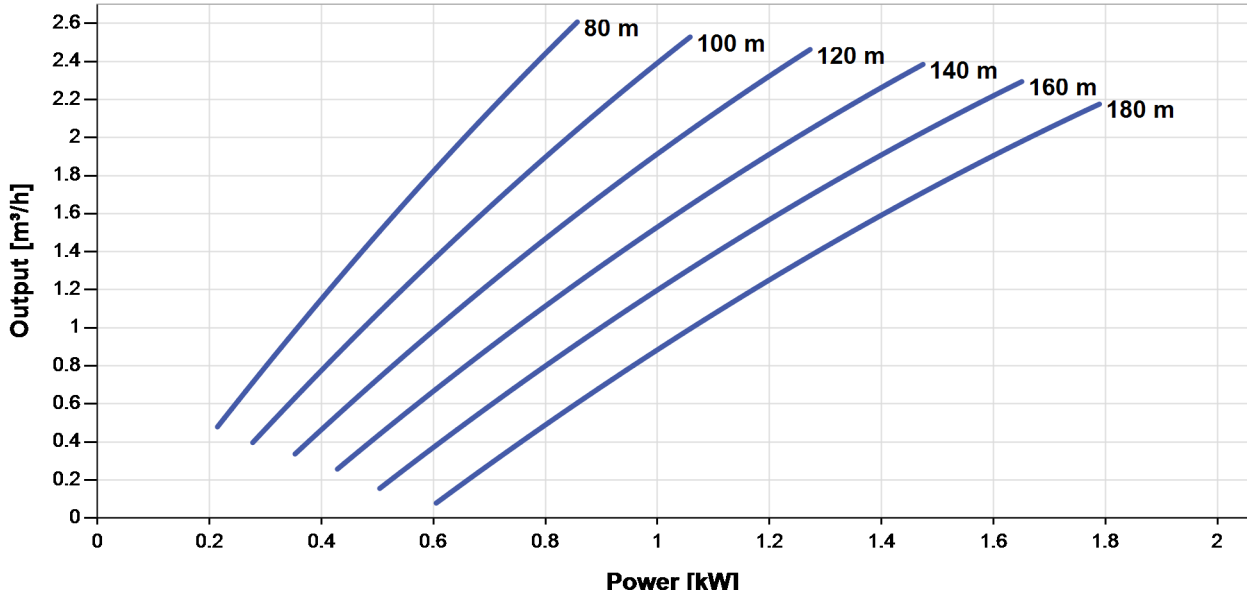


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Pump Chart

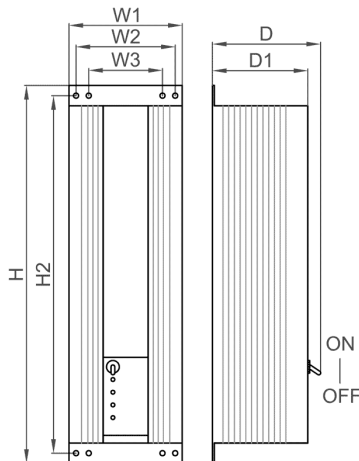
Vmp* > 238 V



Dimensions and Weights

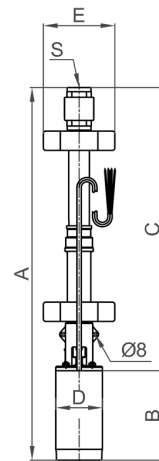
Controller

H = 595 mm
 H2 = 563 mm
 W1 = 178 mm
 W2 = 156 mm
 W3 = 116 mm
 D = 165 mm
 D1 = 150 mm



Pump Unit**

A = 913 mm
 B = 245 mm
 C = 668 mm
 D = 96 mm
 E = 147 mm
 S = 1,25 in



	Net weight
Controller	9,0 kg
Pump Unit	16 kg
Motor	10 kg
Pump End	5,5 kg

*Vmp: 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.

