

# PS600 HR-07

## Solar Submersible Pump System for 4" wells

### System Overview

|           |               |
|-----------|---------------|
| Head      | max. 90 m     |
| Flow rate | max. 1.3 m³/h |

### Technical Data

#### Controller PS600

- 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. 0.70 kW |
| Input voltage                       | max. 150 V   |
| Optimum Vmp*                        | > 68 V       |
| Nominal voltage (battery operation) | 48 V         |
| Motor current                       | max. 13 A    |
| Efficiency                          | max. 98 %    |
| Ambient temp.                       | -30...50 °C  |
| Enclosure class                     | IP54         |

#### Motor ECDRIVE 600-HR

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

|                  |                 |
|------------------|-----------------|
| Rated power      | 0.70 kW         |
| Efficiency       | max. 92 %       |
| Motor speed      | 900...3,300 rpm |
| Insulation class | F               |
| Enclosure class  | IP68            |
| Submersion       | max. 250 m      |

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

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

#### Pump Unit PU HR-07 (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

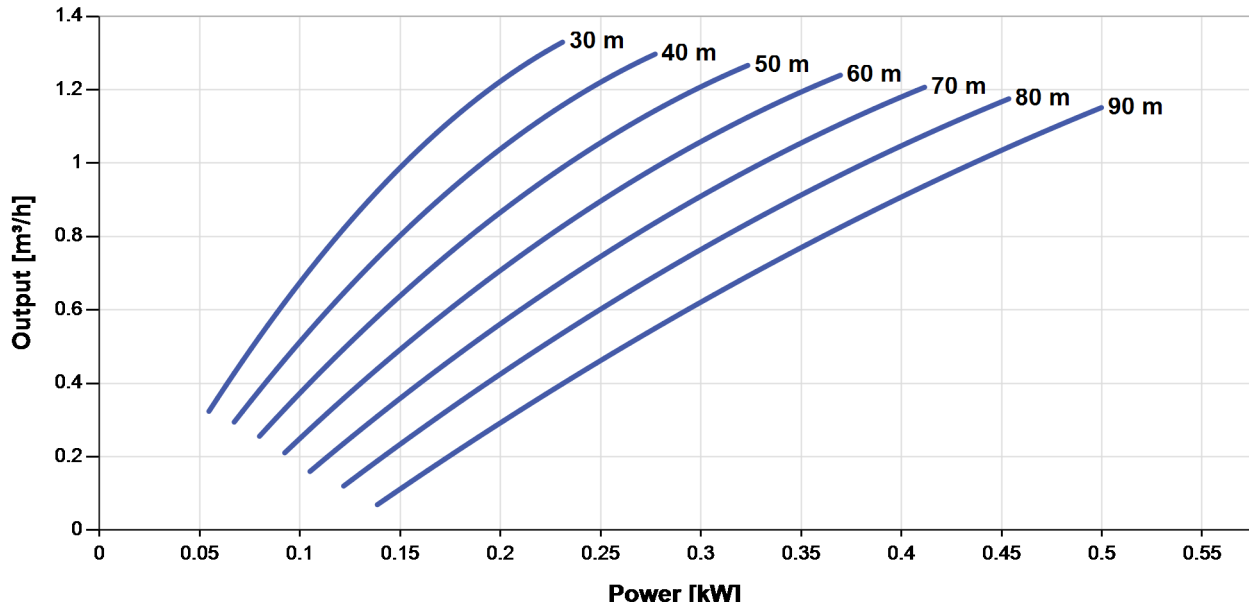


## PS600 HR-07

### Solar Submersible Pump System for 4" wells

#### Pump Chart

V<sub>mp</sub>\* > 68 V



#### Dimensions and Weights

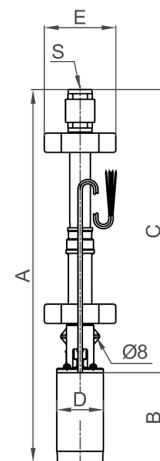
##### Controller

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



##### Pump Unit\*\*

A = 771 mm  
 B = 185 mm  
 C = 586 mm  
 D = 96 mm  
 E = 147 mm  
 S = 1.25 in



|            | Net weight |
|------------|------------|
| Controller | 4.5 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/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.

