

PS2-150 AHR-07S

Solar Submersible Pump System for 3,5" wells

System Overview

| | |
|-----------|---------------|
| Head | max. 60 m |
| Flow rate | max. 1,4 m³/h |

Technical Data

Controller PS2-150

- 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

| | |
|-----------------|--------------|
| Power | max. 0,30 kW |
| Input voltage | max. 50 V |
| Optimum Vmp** | > 17 V |
| Motor current | max. 22 A |
| Efficiency | max. 98 % |
| Ambient temp. | -40...50 °C |
| Enclosure class | IP68 |

Motor ECDRIVE 150-AHR-S

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

| | |
|------------------|-----------------|
| Rated power | 0,30 kW |
| Efficiency | max. 92 % |
| Motor speed | 700...3.300 rpm |
| Insulation class | F |
| Enclosure class | IP68 |
| Submersion | max. 150 m |

Pump End PE AHR-07S***

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

| | |
|------------|-----------|
| Efficiency | max. 55 % |
|------------|-----------|



Pump Unit PU150 AHR-07S (Motor, Pump End)

| | |
|-------------------|-------------|
| Borehole diameter | min. 3,5 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

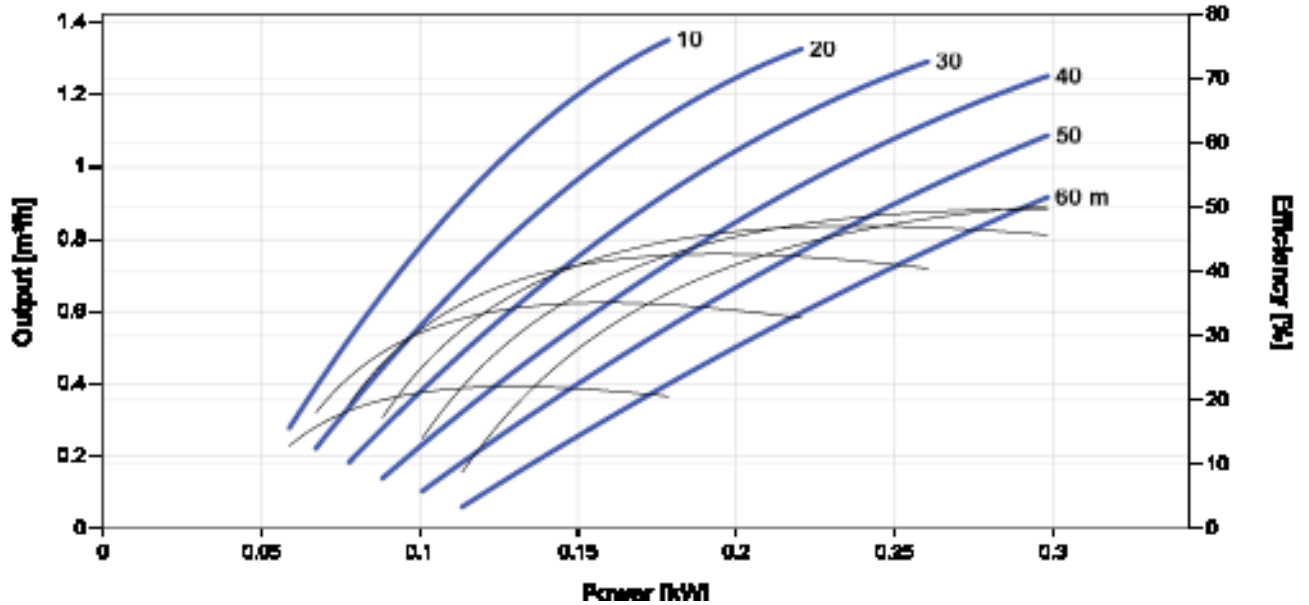


PS2-150 AHR-07S

Solar Submersible Pump System for 3,5" wells

Pump Chart

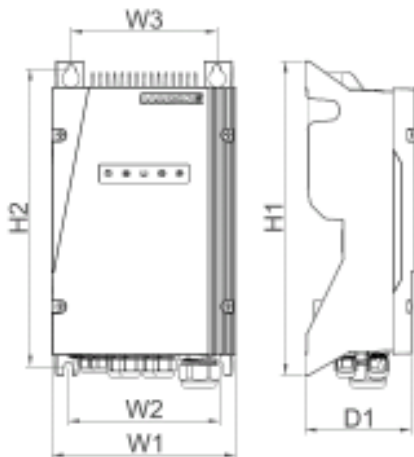
Vmp* > 17 V



Dimensions and Weights

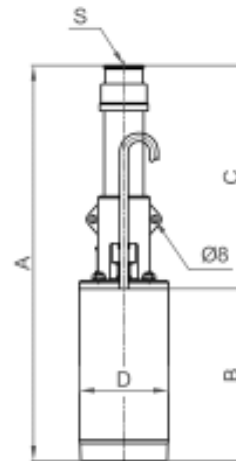
Controller

H1 = 352 mm
 H2 = 333 mm
 W1 = 207 mm
 W2 = 170 mm
 W3 = 164 mm
 D1 = 124 mm



Pump Unit

A = 454 mm
 B = 211 mm
 C = 243 mm
 D = 88 mm
 S = 1 in



| | Net weight |
|------------|------------|
| Controller | 5,6 kg |
| Pump Unit | 8,4 kg |
| Motor | 6,8 kg |
| Pump End | 1,6 kg |

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

