

# PS1800 C-SJ5-12

## Solar Submersible Pump System for 4" wells

### System Overview

Head	max. 70 m
Flow rate	max. 7,6 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
Motor current	max. 14 A
Efficiency	max. 98 %
Ambient temp.	-30...50 °C
Enclosure class	IP54

#### Motor ECDRIVE 1200-C

- 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. 250 m

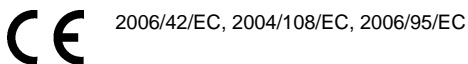
#### Pump End PE C-SJ5-12

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

#### Pump Unit PU C-SJ5-12 (Motor, Pump End)

Borehole diameter	min. 4,0 in
Water temperature	max. 50 °C

### Standards



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



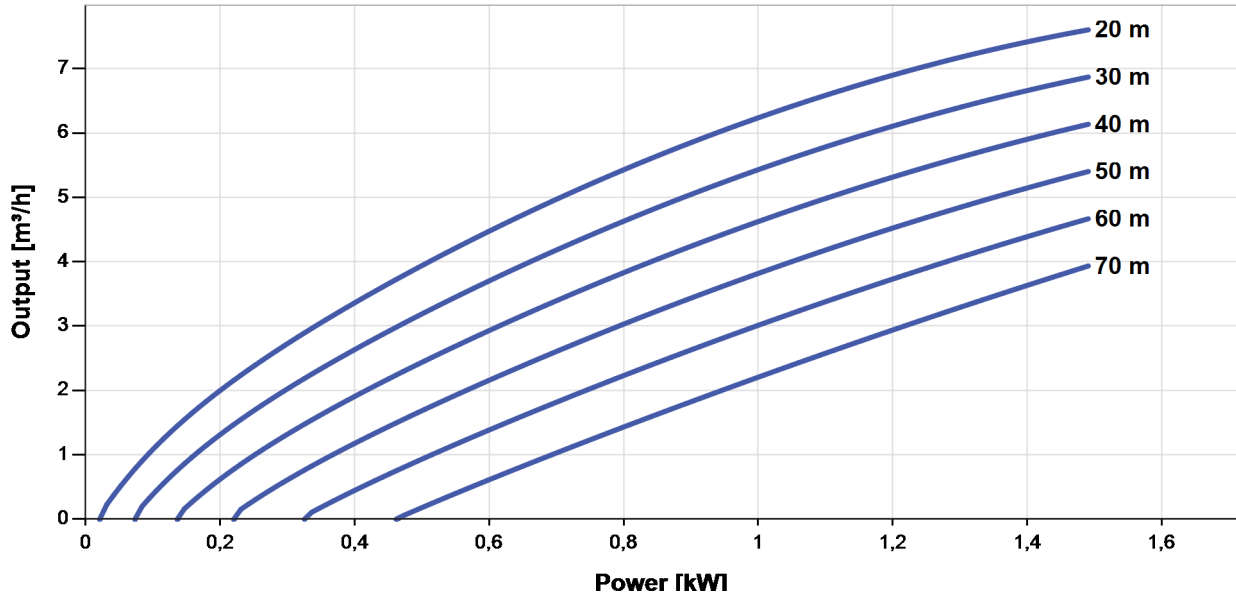
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### Pump Chart

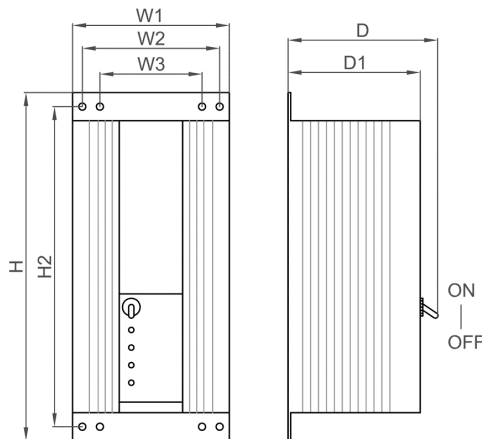
Vmp\* > 102 V



### Dimensions and Weights

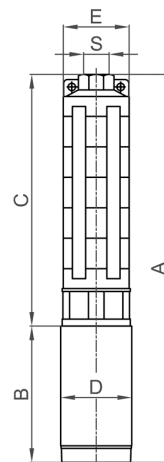
#### Controller

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



#### Pump Unit

- A = 611 mm
- B = 185 mm
- C = 426 mm
- D = 96 mm
- E = 98 mm
- S = 1,5 in



	Net weight
Controller	4,5 kg
Pump Unit	14 kg
Motor	7,0 kg
Pump End	6,5 kg

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

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All specifications and information are given with good intent, errors are possible and products may be subject to change without notice. Pictures may differ from actual products depending on local market requirements and regulations.

**Sun. Water. Life.**