

PS1800 C-SJ42-1

Solar Submersible Pump System for 6" wells

System Overview

Head	max. 8 m
Flow rate	max. 53 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.	-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-SJ42-1

- Non-return valve
- Premium materials, stainless steel: AISI 304
- Optional: dry running protection
- Centrifugal pump

Pump Unit PU C-SJ42-1 (Motor, Pump End)

Borehole diameter	min. 6,0 in
Water temperature	max. 50 °C

Standards



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

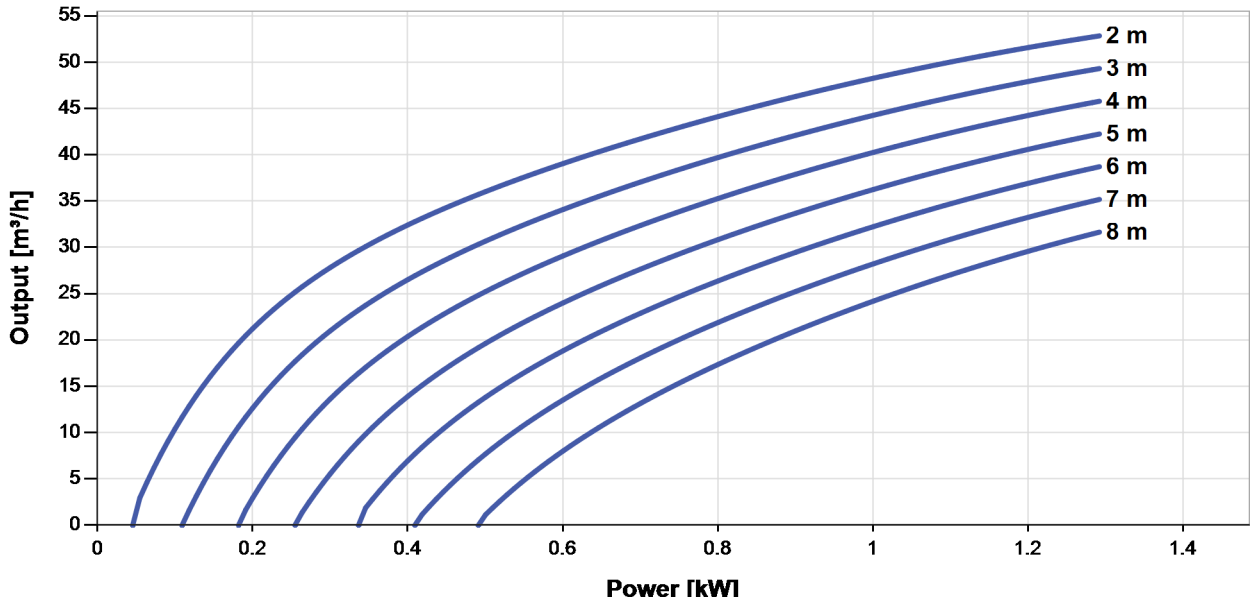


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Pump Chart

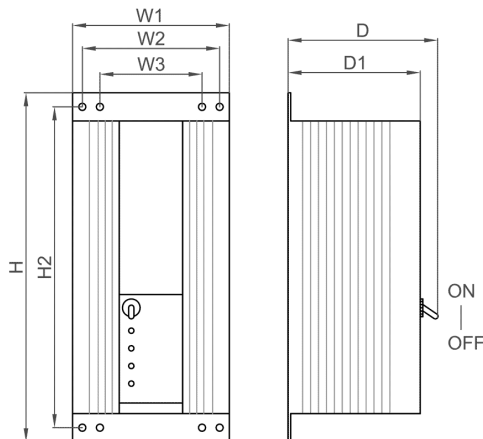
V_{mp}* > 102 V



Dimensions and Weights

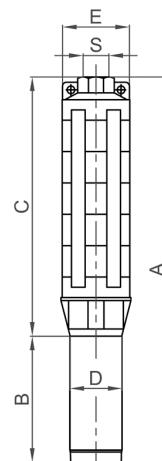
Controller

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



Pump Unit

- A = 565 mm
- B = 185 mm
- C = 380 mm
- D = 96 mm
- E = 147 mm
- S = 3 in



	Net weight
Controller	4.5 kg
Pump Unit	15 kg
Motor	7.0 kg
Pump End	8.0 kg

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

