

# PS1800 C-SJ42-1

## Solar Submersible Pump System for 6" wells

### System Overview

Head	max. 8 m
Flow rate	max. 53 m <sup>3</sup> /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

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

Borehole diameter	min. 6,0 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/m<sup>2</sup> solar irradiance, 25 °C cell temperature

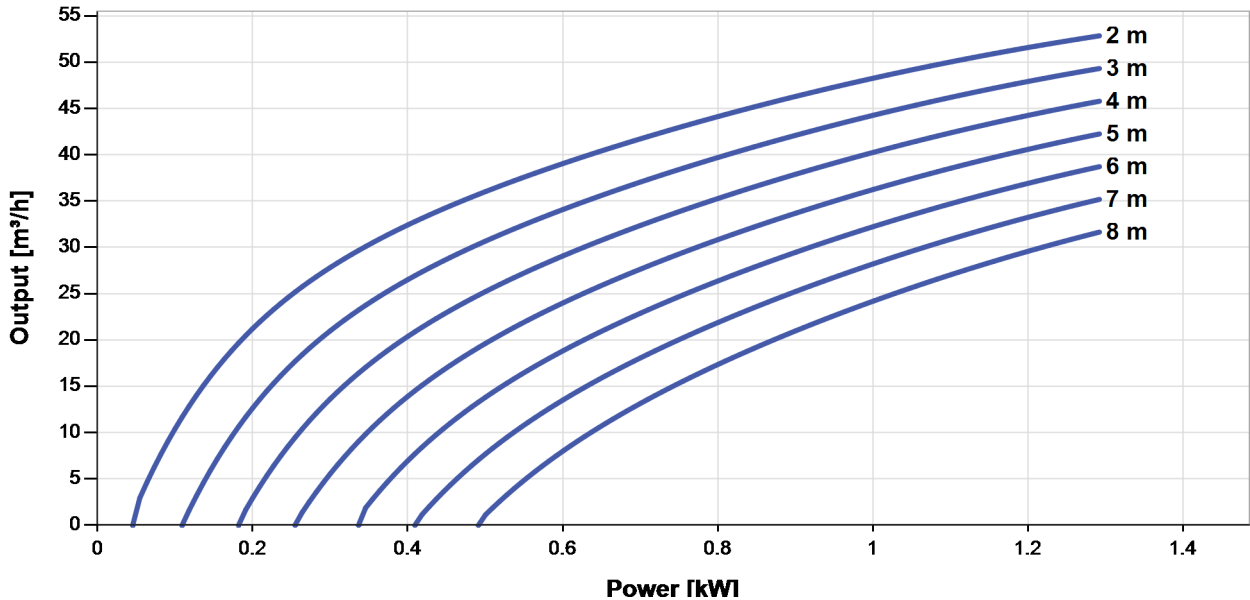


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### Pump Chart

V<sub>mp</sub>\* > 102 V



### Dimensions and Weights

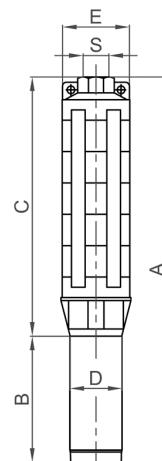
#### Controller

- 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<sub>mp</sub>: MPP-voltage under Standard Test Conditions (STC): 1000 W/m<sup>2</sup> solar irradiance, 25 °C cell temperature

