

# PS2-1800 C-SJ12-4

Solar Submersible Pump System for 4" wells

## System Overview

Head	max. 18 m
Flow rate	max. 20 m³/h

## Technical Data

### Controller PS2-1800

- 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
- Integrated Sun Sensor

Power	max. 1,8 kW
Input voltage	max. 200 V
Optimum Vmp**	> 102 V
Motor current	max. 14 A
Efficiency	max. 98 %
Ambient temp.	-40...50 °C
Enclosure class	IP68

### Motor ECDRIVE 1200-C / ECDRIVE 1800-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. 150 m

### Pump End PE C-SJ12-4

- Non-return valve
  - Premium materials, stainless steel: AISI 304
  - Centrifugal pump
- |            |           |
|------------|-----------|
| Efficiency | max. 58 % |
|------------|-----------|

### Pump Unit PU1800 C-SJ12-4 (Motor, Pump End)

Borehole diameter	min. 4,0 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/m² solar irradiance, 25 °C cell temperature

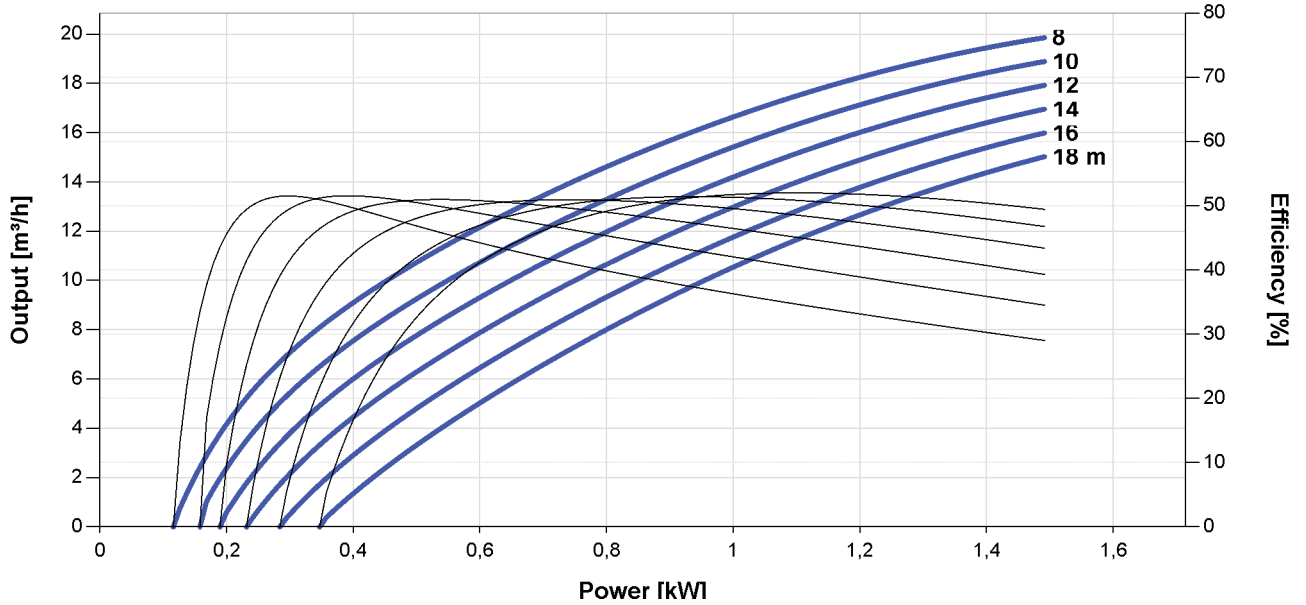


## PS2-1800 C-SJ12-4

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### Pump Chart

Vmp\* > 102 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 = 665 mm  
B = 185 mm  
C = 480 mm  
D = 96 mm  
E = 98 mm  
S = 2 in



	Net weight
Controller	6,0 kg
Pump Unit	13 kg
Motor	7,0 kg
Pump End	6,0 kg

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

