

PS40k2 C-SJ42-19

Solar Submersible Pump System for 6" wells

System Overview

Head	max. 200 m
Flow rate	max. 63 m ³ /h

PS DataModule – Integrated Data Logger and advanced pump management features. Allows for simple system configuration, real-time and stored data plus provides Bluetooth communication to PumpScanner Android™ App and PS Communicator.*

Technical Data

Controller PS40k2

- Control inputs for dry running protection, remote control etc.
- Protected against overload and overtemperature
- Integrated MPPT (Maximum Power Point Tracking)

Power	max. 37 kW
Input voltage	max. 850 V
Optimum Vmp**	> 575 V
Motor current	max. 65 A
Efficiency	max. 98 %
Ambient temp.	-30...50 °C
Enclosure class	IP54

Motor AC DRIVE SUB 6" 30kW

- Highly efficient 3-phase AC motor
- Frequency: 25...51 Hz
- Premium materials, stainless steel: AISI 304
- No electronics in the motor

Motor speed	1,400...2,905 rpm
Power factor	0.88
Insulation class	F
Enclosure class	IP68
Submersion	max. 300 m

Pump End PE C-SJ42-19

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

Pump Unit PU40k2 C-SJ42-19 (Motor, Pump End)

Borehole diameter	min. 6,0 in
Water temperature	max. 30 °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.

* PS DataModule is included in all PSk2 controllers and any PS controllers with –D in their description. –D variants should be ordered if there is a potential need to use the PS DataModule features in the future as this is not a retrofit option.

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

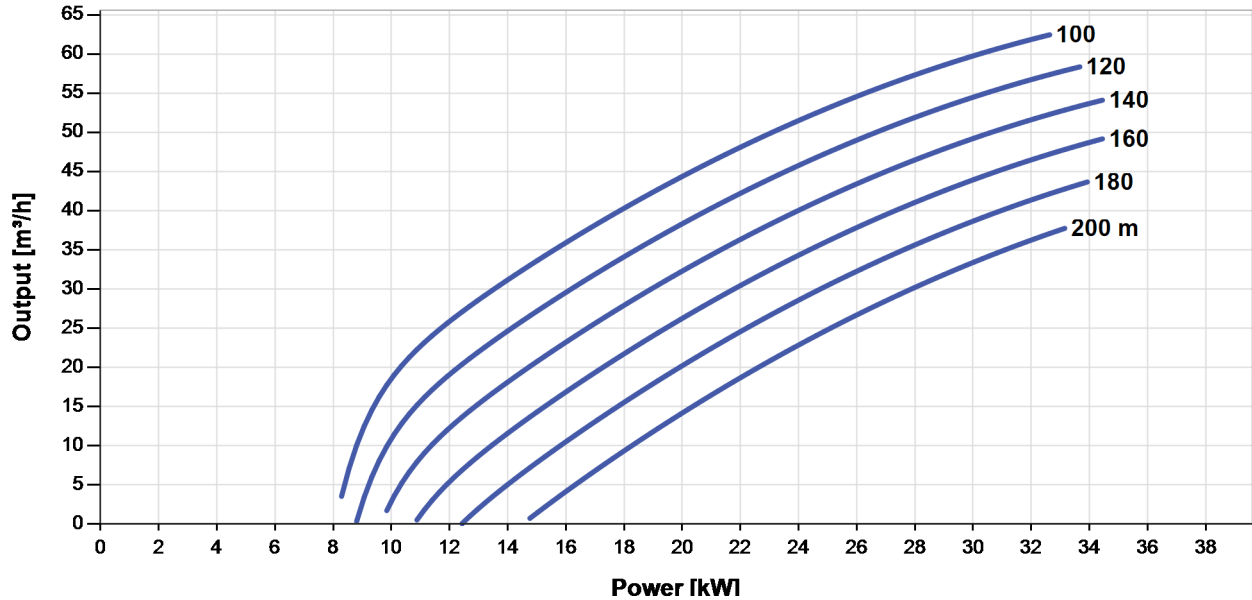


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Pump Chart

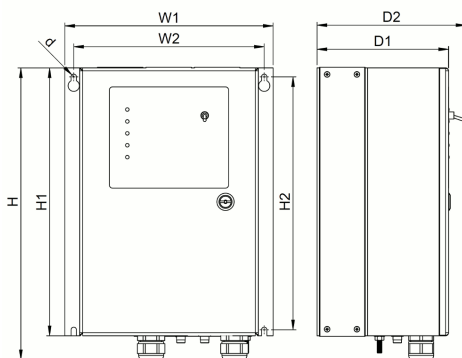
Vmp* > 575 V



Dimensions and Weights

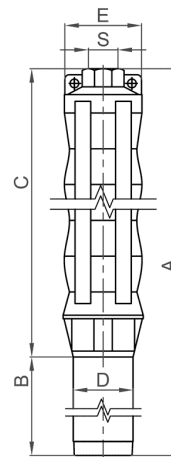
Controller

H = 500 mm
 H1 = 450 mm
 H2 = 425 mm
 W1 = 320 mm
 W2 = 290 mm
 D = 9.0 mm
 D1 = 220 mm
 D2 = 250 mm



Pump Unit

A = 3,548 mm
 B = 1,120 mm
 C = 2,428 mm
 D = 143 mm
 E = 150 mm
 S = 3 in



	Net weight
Controller	17 kg
Pump Unit	164 kg
Motor	90 kg
Pump End	74 kg

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

