

# PSk2-100 C-SJ120-8

Solar Submersible Pump System for 10" wells

## System Overview

Head	max. 160 m
Flow rate	max. 182 m³/h

## Technical Data

### Controller PSk2-100

- High efficiency solar pump controller
- Inputs for water meter, pressure sensors, digital switches
- Simple configuration with LORENTZ PumpScanner Android™ App
- Onboard data logging and system monitoring
- Inbuilt applications for constant pressure, constant flow and daily amount
  - Integrated Sun Sensor
- Active temperature management
- Integrated MPPT (Maximum Power Point Tracking)

Power	max. 90 kW
Input voltage	max. 850 V
Optimum Vmp**	> 575 V
Motor current	max. 160 A
Efficiency	max. 98 %
Ambient temp.	-10...50 °C
Enclosure class	IP54

### Motor AC DRIVE SUB 8" 75kW

- Highly efficient 3-phase AC motor
- Frequency: 30...50 Hz
- Premium materials, stainless steel: AISI 304
- No electronics in the motor

Efficiency	max. 84 %
Motor speed	1.690...2.850 rpm
Power factor	0,85
Insulation class	F
Enclosure class	IP68
Submersion	max. 150 m

### Pump End PE C-SJ120-8

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

Efficiency	max. 83 %
------------	-----------

### Pump Unit PUK2-100 C-SJ120-8 (Motor, Pump End)

Borehole diameter	min. 9,8 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.

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

\*\*\*\*Special solutions available for >30 °C, please consult your distributor

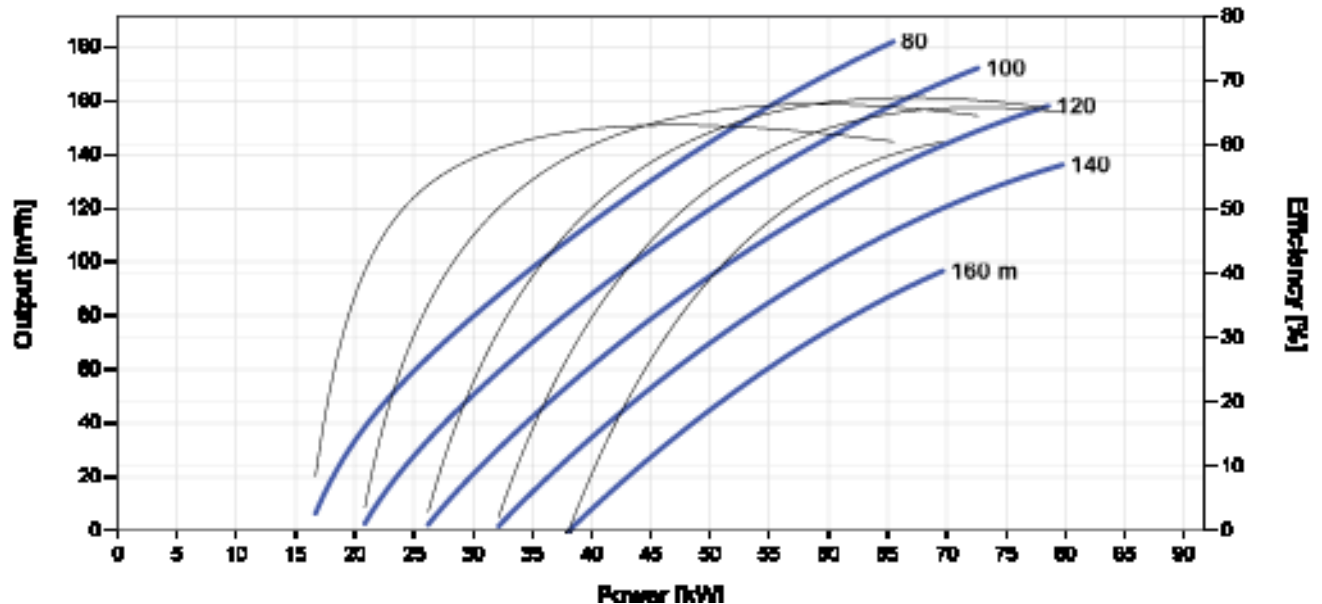


# PSk2-100 C-SJ120-8

Solar Submersible Pump System for 10" wells

## Pump Chart

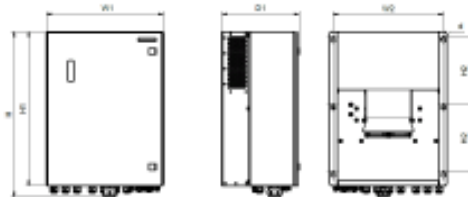
$V_{mp}^* > 575 \text{ V}$



## Dimensions and Weights

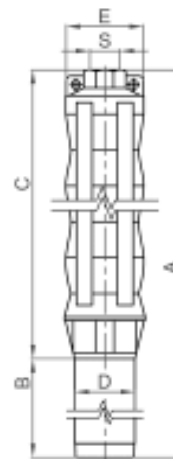
### Controller

H = 859 mm  
H1 = 800 mm  
H2 = 350 mm  
W1 = 610 mm  
W2 = 576 mm  
D = 10 mm  
D1 = 402 mm



### Pump Unit

A = 3.325 mm  
B = 1.645 mm  
C = 1.680 mm  
D = 196 mm  
S = 6 in  
E = 230 mm



	Net weight
Controller	60 kg
Pump Unit	295 kg
Motor	211 kg
Pump End	84 kg

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

