

## PSk2-7 C-SJ17-9

Solar Submersible Pump System for 6" wells

### System Overview

|           |              |
|-----------|--------------|
| Head      | max. 80 m    |
| Flow rate | max. 25 m³/h |

### Technical Data

#### Controller PSk2-7

- High efficiency solar pump controller
- Hybrid power (solar / grid / generator) support with LORENTZ SmartSolution
- 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. 8,0 kW |
| Input voltage   | max. 850 V  |
| Optimum Vmp**   | > 575 V     |
| Motor current   | max. 13 A   |
| Efficiency      | max. 98 %   |
| Ambient temp.   | -30...50 °C |
| Enclosure class | IP66        |

#### Motor AC DRIVE SUB 6" 5.5kW

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

|                  |                   |
|------------------|-------------------|
| Efficiency       | max. 85 %         |
| Motor speed      | 1.400...2.905 rpm |
| Power factor     | 0,88              |
| Insulation class | F                 |
| Enclosure class  | IP68              |
| Submersion       | max. 150 m        |

#### Pump End PE C-SJ17-9

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

|            |           |
|------------|-----------|
| Efficiency | max. 64 % |
|------------|-----------|

#### Pump Unit PUK2-7 C-SJ17-9 (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.

\*\*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

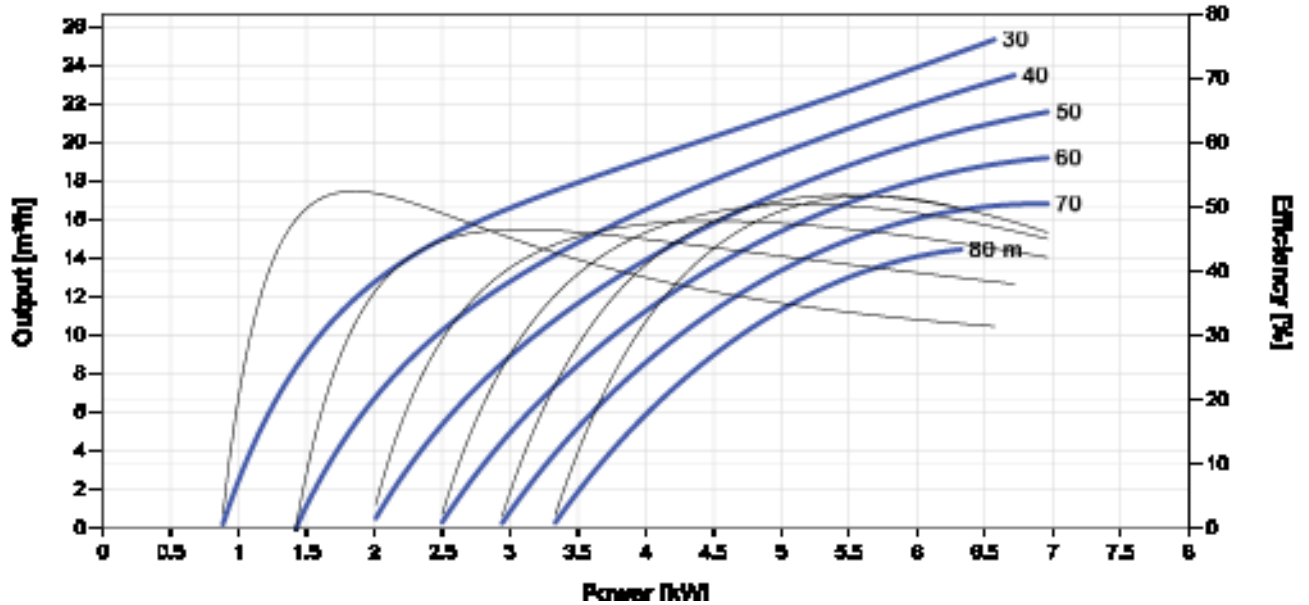


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### Pump Chart

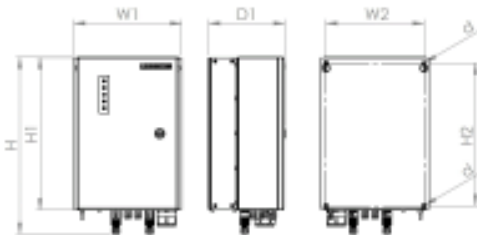
Vmp\* > 575 V



### Dimensions and Weights

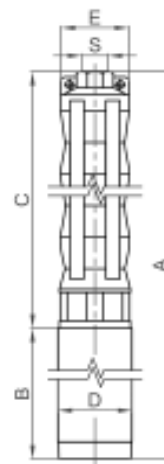
#### Controller

H = 500 mm  
 H1 = 450 mm  
 H2 = 421 mm  
 W1 = 320 mm  
 W2 = 290 mm  
 D = 9,0 mm  
 D1 = 226 mm



#### Pump Unit

A = 1.580 mm  
 B = 750 mm  
 C = 830 mm  
 D = 143 mm  
 E = 133 mm  
 S = 2,5 in



|            | Net weight |
|------------|------------|
| Controller | 18 kg      |
| Pump Unit  | 65 kg      |
| Motor      | 48 kg      |
| Pump End   | 17 kg      |

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

