

# PSk2-7 C-SJ12-15

## Solar Submersible Pump System for 4" wells

### System Overview

Head	max. 100 m
Flow rate	max. 23 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	IP41

#### Motor AC DRIVE SUB 4" 5.5kW

- Highly efficient 3-phase AC motor
- Frequency: 25...55 Hz
- Premium materials, stainless steel: AISI 304
- No electronics in the motor
- Motor prefilled with food grade oil

Motor speed	1.400...3.135 rpm
Power factor	0,83
Insulation class	F
Enclosure class	IP68
Submersion	max. 100 m

#### Pump End PE C-SJ12-15

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

#### Pump Unit PUK2-7 C-SJ12-15 (Motor, Pump End)

Borehole diameter	min. 4,0 in
Water temperature	max. 30 °C

### Standards

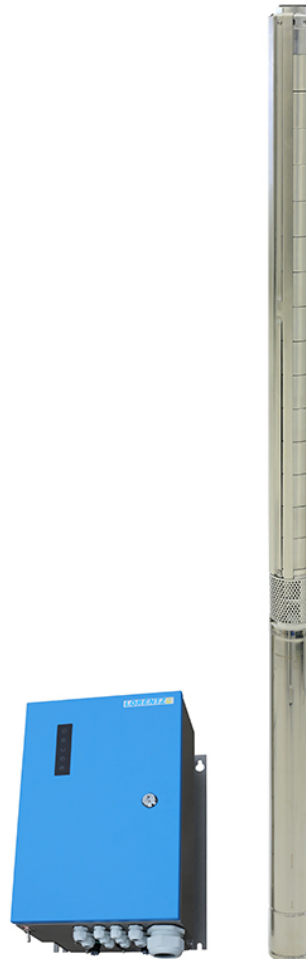


2006/42/EC, 2004/108/EC, 2006/95/EC

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

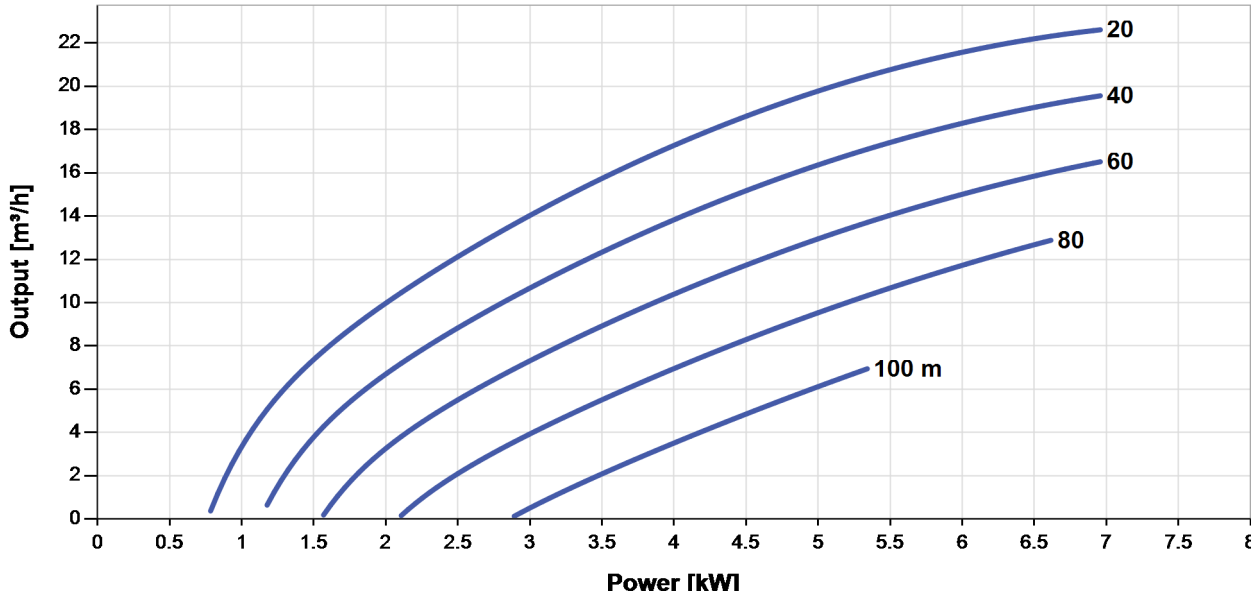


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#### Pump Chart

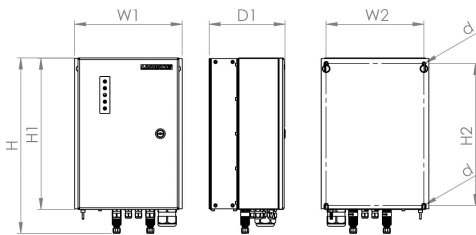
Vmp\* > 575 V



#### Dimensions and Weights

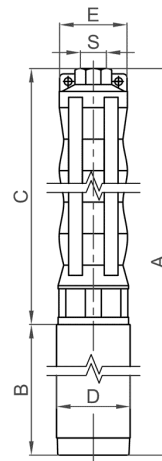
##### Controller

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 = 1.925 mm  
 B = 740 mm  
 C = 1.185 mm  
 D = 96 mm  
 E = 100 mm  
 S = 2 in



	Net weight
Controller	18 kg
Pump Unit	63 kg
Motor	25 kg
Pump End	38 kg

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

