PSk3-7 C-SJ42-3

Solar Submersible Pump System for 6" wells

System Overview

Head	max. 30 m
Flow rate	max. 76 m³/h

Technical Data

Controller PSk3-7

- High efficiency solar pump controller
- Integrated hybrid power functions to mix solar with grid / generator power
- Integrated MPPT (Maximum Power Point Tracking)
- Multiple analogue and digital sensor
- Simple configuration with LORENTZ Assitant App
- Onboard data logging and system monitoring with real-time and historic data views
- Inbuilt water applications to manage your pumping system
- SunSensor included for unique pump and motor protection
- Active temperature management

Power	max. 8.3 kW
Input voltage	max. 850 V
Optimum Vmp**	> 575 V
Motor current	max. 13 A
Efficiency	max. 98 %
Ambient temp.	-25...60 °C
Enclosure class	IP66



Motor AC DRIVE SUB 6" 5.5kW

- Highly efficient 3-phase AC motor
- Frequency: 25...52 Hz
- Premium materials, stainless steel: AISI 304
- No electronics in the motor

Efficiency	max. 85 %
Motor speed	1,400...2,965 rpm
Power factor	0.88
Insulation class	F
Enclosure class	IP68
Submersion	max. 150 m

Pump End PE C-SJ42-3

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

Efficiency	max. 72 %

Pump Unit PU7k C-SJ42-3 (Motor, Pump End)

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

Standards

CE 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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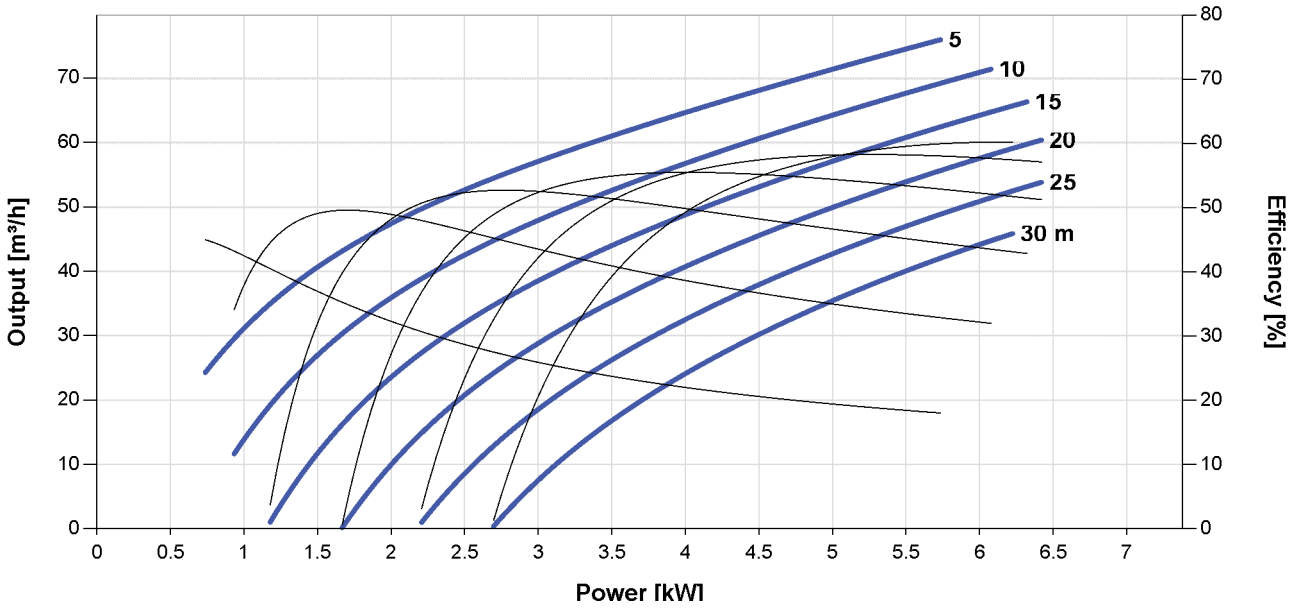
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Pump Chart

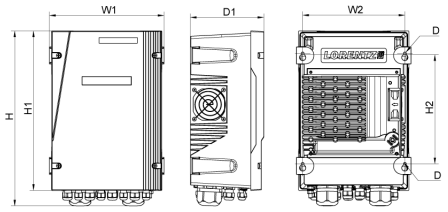
Vmp* > 575 V



Dimensions and Weights

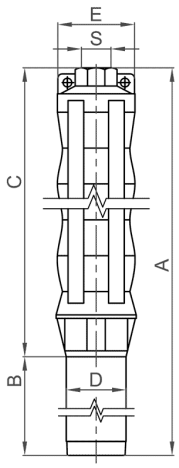
Controller

H = 428 mm
H1 = 390 mm
H2 = 270 mm
W1 = 280 mm
W2 = 250 mm
D = 6.0 mm
D1 = 180 mm



Pump Unit

A = 1,354 mm
B = 750 mm
C = 604 mm
D = 143 mm
E = 147 mm
S = 3 in



	Net weight
Controller	9.2 kg
Pump Unit	64 kg
Motor	51 kg
Pump End	13 kg

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

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