

PSk2-7 CS-F12-9

Solar Surface Pump System

System Overview

 $\begin{array}{ccc} \mbox{Head} & \mbox{max. 90 m} \\ \mbox{Flow rate} & \mbox{max. 17 m}^{3}/\!\! h \end{array}$

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
 IP54

Motor AC DRIVE CS-F 5.5kW

- · Highly efficient 3-phase AC motor
- Frequency: 25...50 Hz

Efficiency max. 78 %

Motor speed 1,400...2,850 rpm

Power factor 0.84

Insulation class F

Enclosure class IPX4

Pump End PE CS-F12-9

- Premium materials
- Centrifugal pump

Efficiency max. 61 %

Pump Unit PUk2-7 CS-F12-9 (Motor, Pump End)

Water temperature $$\rm max.\,70~^{\circ}C^{****}$$ Suction head acc. to COMPASS sizing

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 >70 °C, please consult your distributor



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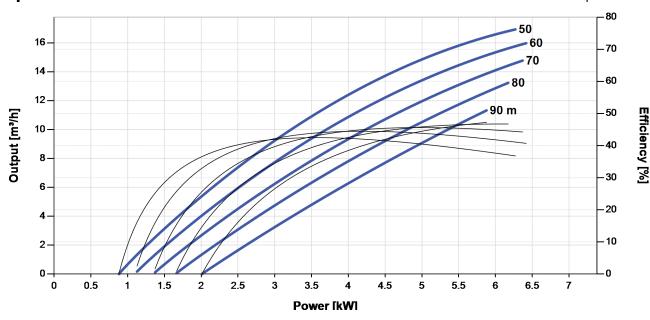


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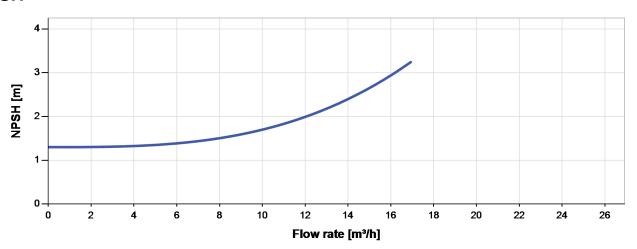
Solar Surface Pump System







NPSH



The NPSH (Net Positive Suction Head) is NOT the operating suction head. To calculate the operating suction head please refer to the installation manual.

 ${}^{\star}\text{Vmp: MPP-voltage under Standard Test Conditions (STC): 1000 W/m}{}^{2}\,\text{solar irradiance, 25 °C cell temperature}$







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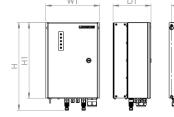
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Dimensions and Weights

Controller

H = 500 mmH1 = 450 mmH2 = 421 mmW1 = 320 mm W2 = 290 mm D = 9.0 mm

D1 = 226 mm



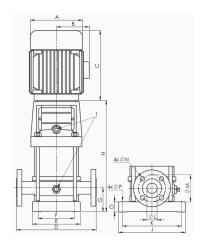
Pump Unit

A = 260 mm B = 208 mmC = 430 mmD = 300 mm

E = 199 mm F = 130 mm G = 90 mm

H = 607 mmI = G1/2"J = 247 mmK = 215 mmL = 50 mm

M = 125 mm $N = 18 \ mm$ O = 35 mm P = 14 mm



Net weight

Controller	18 kg
Pump Unit	76 kg
Motor	59 kg
Pump End	17 kg