

PSk2-21 CS-F42-40

Solar Surface Pump System

System Overview

 $\begin{array}{ccc} \mbox{Head} & \mbox{max. 80 m} \\ \mbox{Flow rate} & \mbox{max. 63 m}^{3} \mbox{/h} \end{array}$

Technical Data

Controller PSk2-21

- 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. 21 kW

 Input voltage
 max. 850 V

 Optimum Vmp**
 > 575 V

 Motor current
 max. 33 A

 Efficiency
 max. 98 %

 Ambient temp.
 -30...50 °C

 Enclosure class
 IP66

Motor AC DRIVE CS-F 15kW

- · Highly efficient 3-phase AC motor
- Frequency: 25...51 Hz

Efficiency max. 82 %
Motor speed 1.400...2.905 rpm
Power factor 0,87
Insulation class F
Enclosure class IPX4

Pump End PE CS-F42-40

- Premium materials
- Centrifugal pump

Efficiency max. 85 %

Pump Unit PUk2-21 CS-F42-40 (Motor, Pump End)

Water temperature max. 70 °C****
Suction head acc. to COMPASS sizing

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 >70 °C, please consult your distributor





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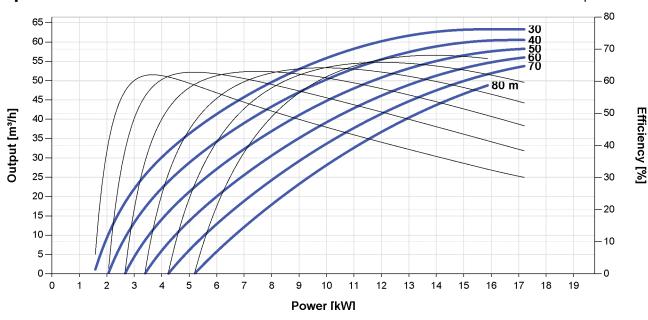


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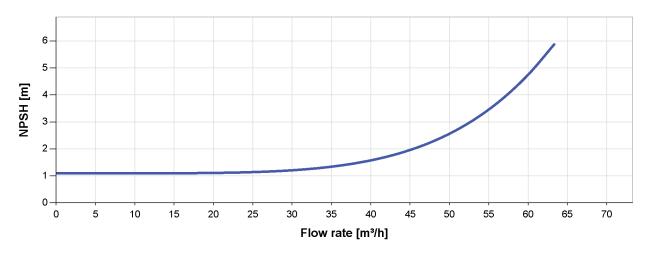
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NPSH



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

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







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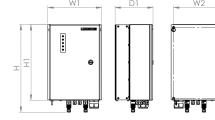
Dimensions and Weights

Controller

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

D = 9.0 mm

D1 = 226 mm

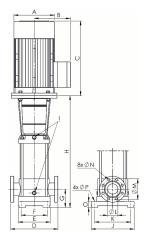


Pump Unit

A = 330 mm B = 255 mmC = 490 mm $D = 365 \, mm$ E = 245 mmF = 190 mmG = 140 mm

H = 906 mmI = G1/2"J = 330 mmK = 266 mm

L = 80 mmM = 160 mmN = 18 mmO = 45 mmP = 14 mm



	Net weight
Controller	18 kg
Pump Unit	197 kg
Motor	117 kg
Pump End	80 kg