

PSk2-21 CS-F85-20

Solar Surface Pump System

System Overview

Head Flow rate max. 50 m max. 120 m³/h

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. | -3050 °C |
| Enclosure class | IP54 |

Motor AC DRIVE CS-F 15kW

Highly efficient 3-phase AC motor

| Frequency: 2551 Hz | |
|--|----------------|
| Motor speed | 1.4002.905 rpm |
| Power factor | 0,87 |
| Insulation class | F |
| Enclosure class | IPX4 |

Pump End PE CS-F85-20

- Premium materials
- Optional: dry running protection
- Centrifugal pump

Pump Unit PUk2-21 CS-F85-20 (Motor, Pump End)

| - | • | | • | • | |
|-------------------|---|------|--------|--------------|----|
| Water temperature | | | | max. 70 ° | ,C |
| Suction head | | acc. | to CON | /IPASS sizir | ng |

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

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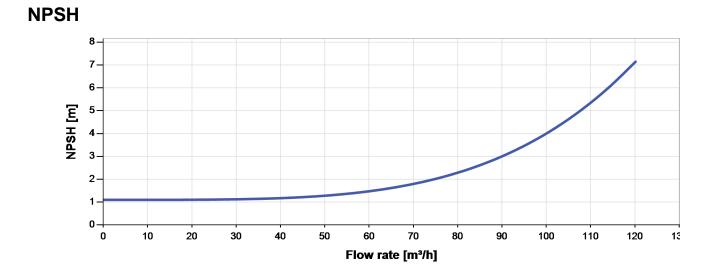
All specifications and information are given with good intent, errors are possible and products may be subject to change without notice. Pictures may differ from actual products depending on local market requirements and regulations.



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Pump Chart Vmp* > 575 V 120 20 25 110-30 35 100-40 90 -Output [m³/h] 80 -45 70-50 m 60 -50 -40-30 20 -10-0 8 13 15 16 ۵ 2 6 9 10 11 12 14 17 18 19 20 Power [kW]



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

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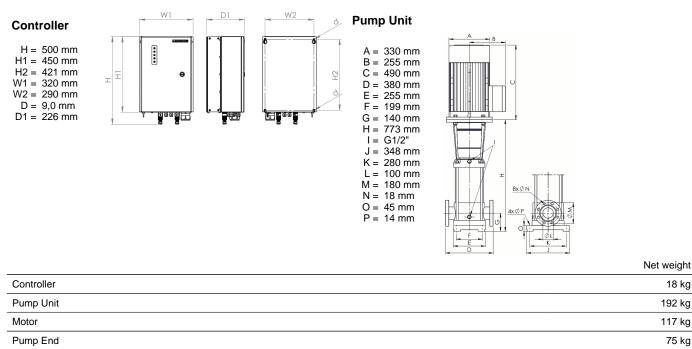
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Dimensions and Weights



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