

# PSk2-40 CS-F85-40

## **Solar Surface Pump System**

# **System Overview**

Head max. 90 m Flow rate max. 125 m³/h

## **Technical Data**

### Controller PSk2-40

- 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. 37 kW
Input voltage	max. 850 V
Optimum Vmp**	> 575 V
Motor current	max. 65 A
Efficiency	max. 98 %
Ambient temp.	-3050 °C
Enclosure class	IP66

#### Motor AC DRIVE CS-F 30kW

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

Efficiency max. 86 %
Motor speed 1.400...2.850 rpm
Power factor 0,90
Insulation class F
Enclosure class IPX4

### Pump End PE CS-F85-40

- Premium materials
- Centrifugal pump

Efficiency max. 82 %

### Pump Unit PUk2-40 CS-F85-40 (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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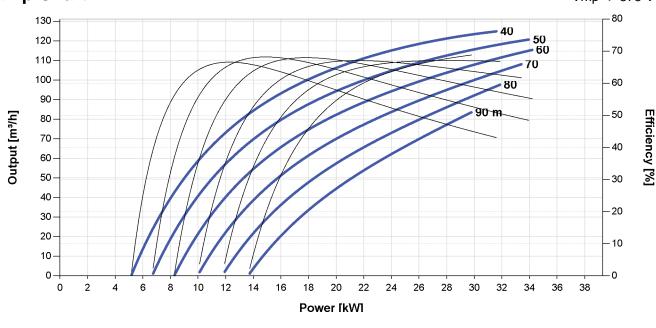


# PSk2-40 CS-F85-40

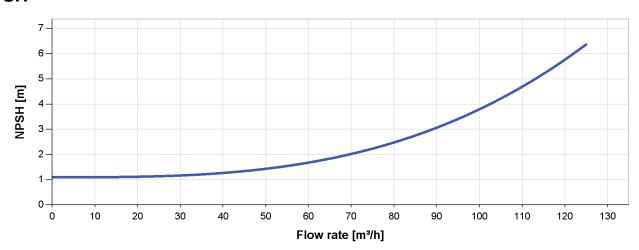
## **Solar Surface Pump System**



Vmp\* > 575 V



## **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.

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







# PSk2-40 CS-F85-40

## **Solar Surface Pump System**

# **Dimensions and Weights**

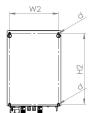
#### Controller

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

D = 9.0 mm

D1 = 226 mm



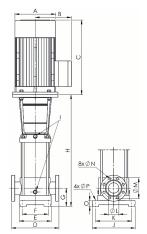


#### **Pump Unit**

A = 400 mm B = 310 mmC = 650 mmD = 380 mmE = 255 mmF = 199 mmG = 140 mmH = 957 mmI = G1/2"J = 348 mm

K = 280 mmL = 100 mmM = 180 mmN = 18 mmO = 40 mm

P = 18 mm



	Net weight
Controller	18 kg
Pump Unit	312 kg
Motor	220 kg
Pump End	92 kg