

PSk2-100 CS-G250-26/4

Solar Surface Pump System

System Overview

Head	max. 35 m
Flow rate	max. 767 m³/h

Technical Data

Controller PSk2-100

- High efficiency solar pump controller
- 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. 90 kW
Input voltage	max. 850 V
Optimum Vmp**	> 575 V
Motor current	max. 160 A
Efficiency	max. 98 %
Ambient temp.	-10...50 °C
Enclosure class	IP54

Motor AC DRIVE CS-G 75kW/4p

- Highly efficient 3-phase AC motor
- Frequency: 25...55 Hz

Efficiency	max. 86 %
Motor speed	740...1,630 rpm
Power factor	0.88
Insulation class	F
Enclosure class	IP55

Pump End PE CS-G250-26/4

- Premium materials
- Centrifugal pump

Efficiency	max. 87 %
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Pump Unit PUK2-100 CS-G250-26/4 (Motor, Pump End)

Water temperature	max. 90 °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 >90 °C, please consult your distributor

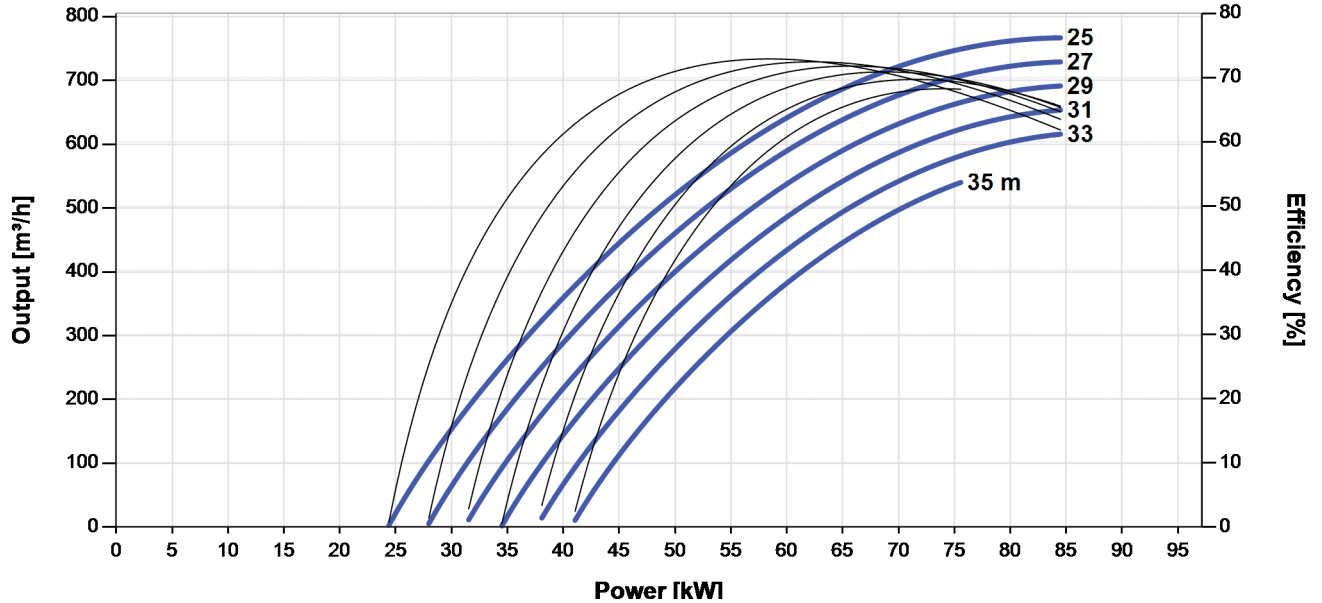


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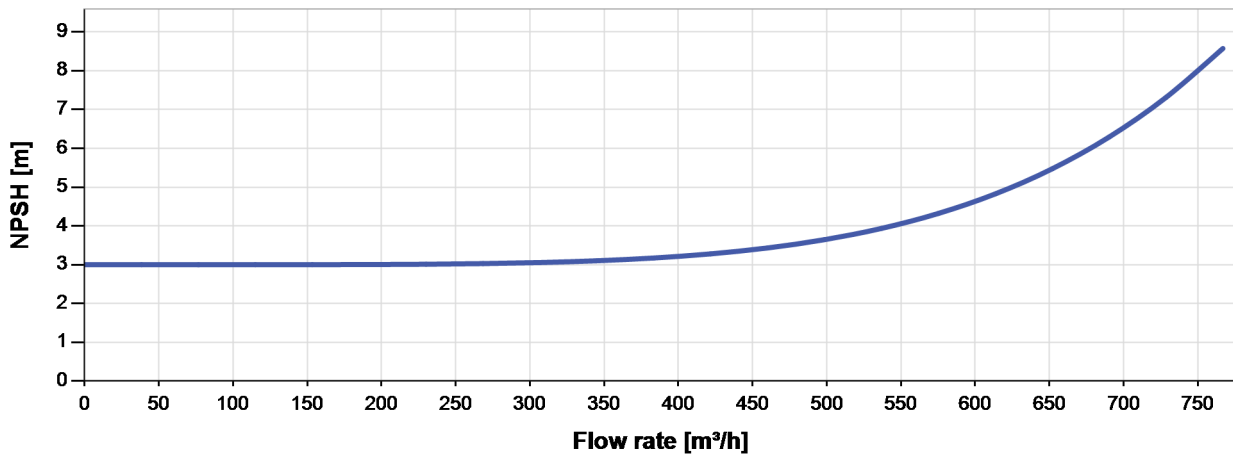
Solar Surface Pump System

Pump Chart

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



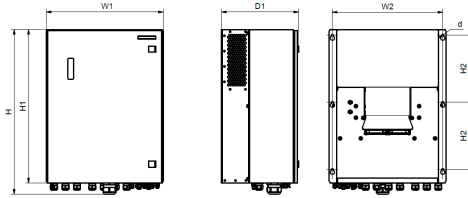
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Solar Surface Pump System

Dimensions and Weights

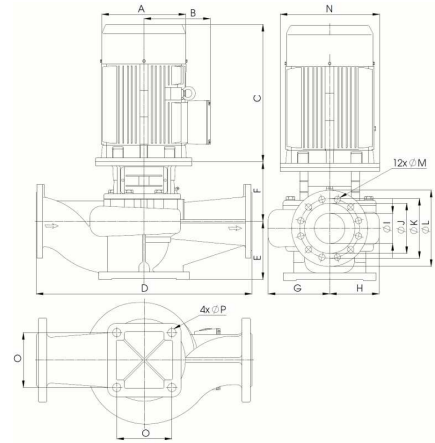
Controller

H = 859 mm
 H1 = 800 mm
 H2 = 350 mm
 W1 = 610 mm
 W2 = 576 mm
 D = 10 mm
 D1 = 402 mm



Pump Unit

A = 400 mm
 B = 400 mm
 C = 829 mm
 D = 1,100 mm
 E = 300 mm
 F = 507 mm
 G = 329 mm
 H = 264 mm
 I = 250 mm
 J = 319 mm
 K = 355 mm
 L = 405 mm
 M = 26 mm
 N = 550 mm
 O = 440 mm
 P = 24 mm



	Net weight
Controller	60 kg
Pump Unit	909 kg
Motor	574 kg
Pump End	335 kg

