PS7k CS-F12-9

Solar Surface Pump System

System Overview

Head	max. 90 m
Flow rate	max. 17 m³/h

Technical Data

Controller PS7k

- Control inputs for dry running protection, remote control etc.
- Protected against reverse polarity, overload and overtemperature
- Integrated MPPT (Maximum Power Point Tracking)

Power	max. 7,0 kW
Input voltage	max. 800 V
Optimum Vmp*	> 575 V
Motor current	max. 10 A
Efficiency	max. 98 %
Ambient temp.	-30...50 °C
Enclosure class	IP41

Motor AC DRIVE SF 5.5kW

- Highly efficient 3-phase AC motor
- Frequency max. 50 Hz

Efficiency	max. 92 %
Motor speed	1.150...2.850 rpm
Power factor	0,84
Insulation class	F
Enclosure class	IP55

Pump End PE CS-F12-9

- Premium materials

Pump Unit PU CS-F12-9 (Motor, Pump End)

Water temperature	max. 70 °C
Suction head	max. 3 m

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 iradiance, 25 °C cell temperature

BERNT LORENTZ GmbH & Co. KG
Kroegerskoppel 7, 24558 Henstedt-Ulzburg, Germany,
Tel +49 (0)4193 7548-0, Fax -29, www.lorentz.de

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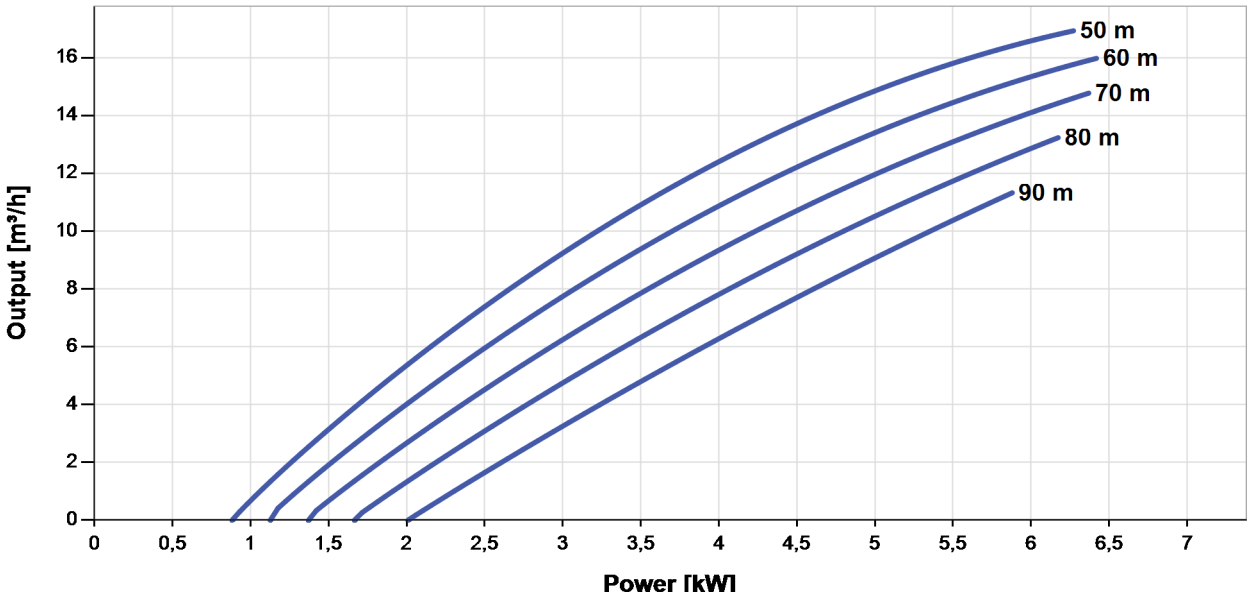
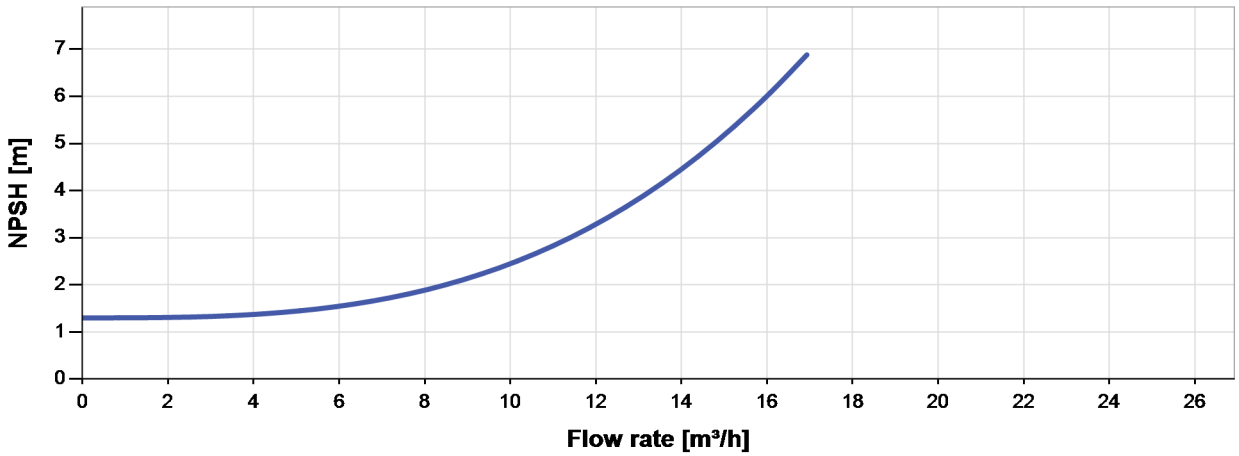
Solar Surface Pump System

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.

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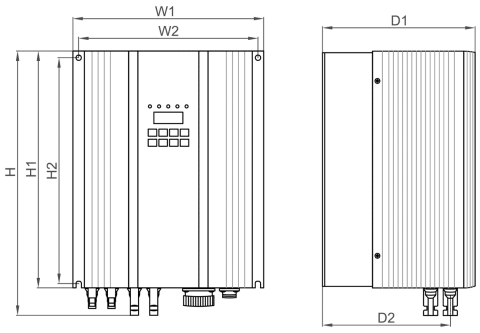
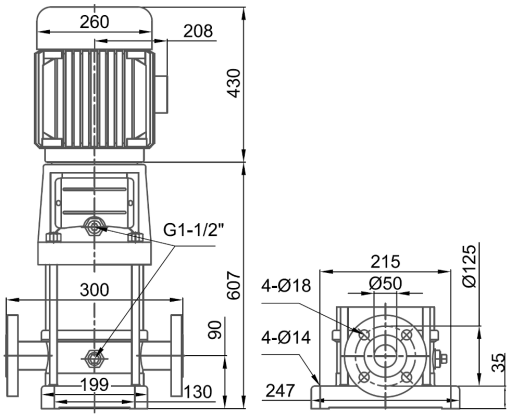
Dimensions and Weights

Controller

H = 350 mm
H1 = 310 mm
H2 = 295 mm
W1 = 250 mm
W2 = 235 mm
D1 = 200 mm
D2 = 167 mm



Pump Unit [mm]



	Net weight
Controller	9,0 kg
Pump Unit	76 kg
Motor	59 kg
Pump End	17 kg

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