

PS7k2 CS-G100-17/2

Solar Surface Pump System

System Overview

Head	max. 18 m
Flow rate	max. 114 m ³ /h

Technical Data

Controller PS7k2

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

Power	max. 8.0 kW
Input voltage	max. 850 V
Optimum V _{mp} *	> 575 V
Motor current	max. 13 A
Efficiency	max. 98 %
Ambient temp.	-30...50 °C
Enclosure class	IP54

Motor AC DRIVE CS-G 5.5kW

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

Motor speed	1,400...2,905 rpm
Power factor	0.84
Insulation class	F
Enclosure class	IPX4

Pump End PE CS-G100-17/2

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

Pump Unit PU CS-G100-17/2 (Motor, Pump End)

Water temperature	max. 90 °C
Suction head	max. 3 m



Standards



Meets the requirements of:
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.

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

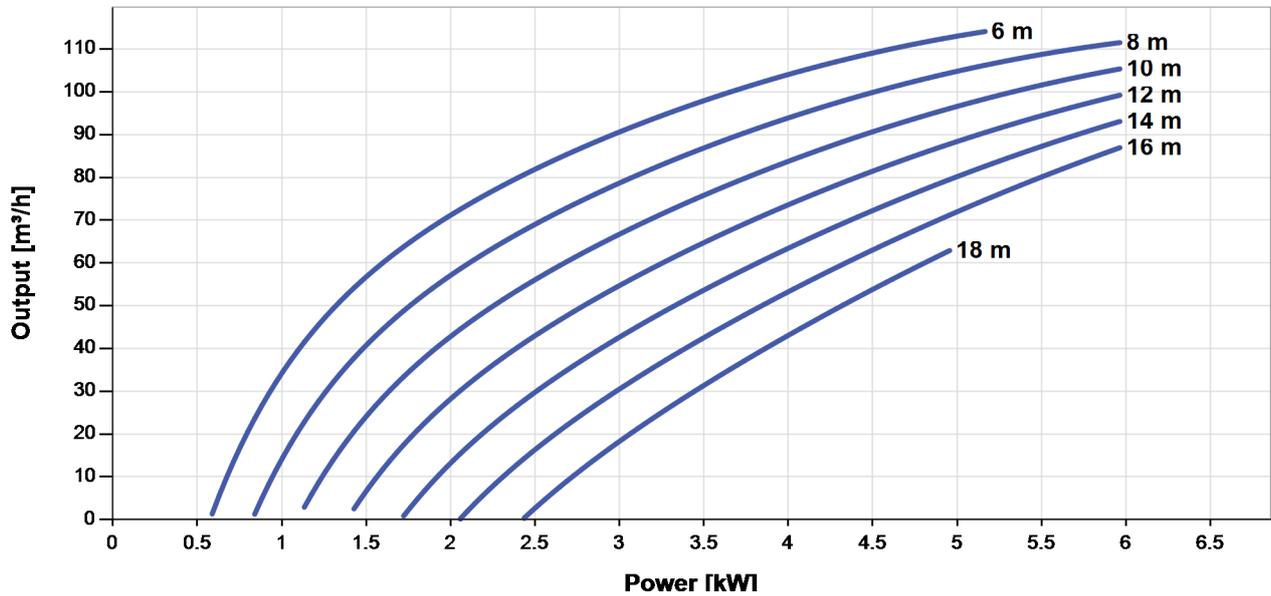


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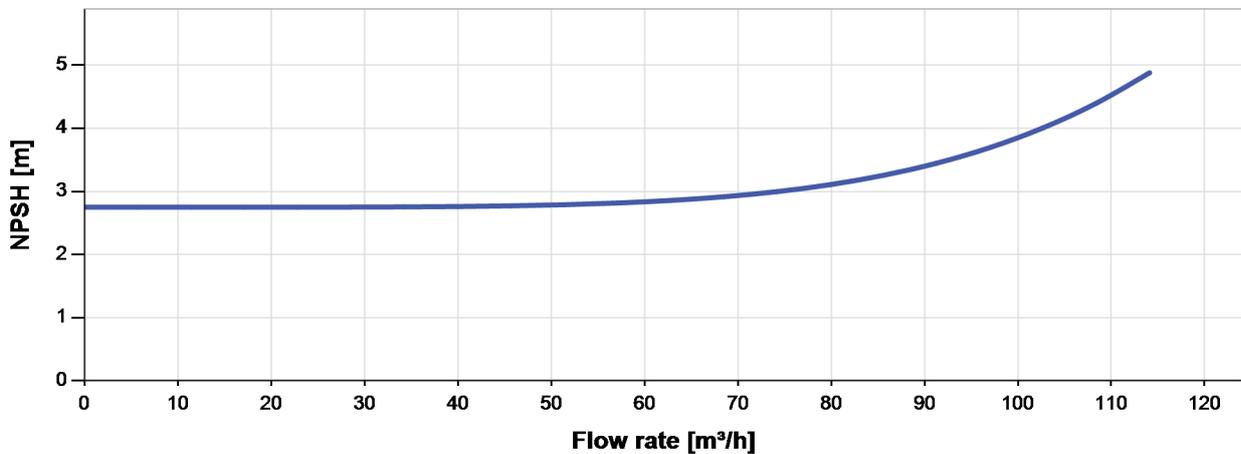
Solar Surface Pump System

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



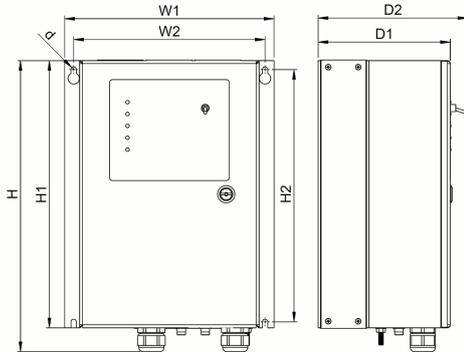
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Dimensions and Weights

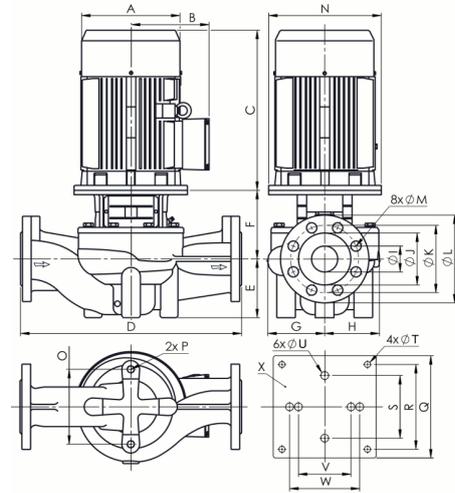
Controller

H = 500 mm
 H1 = 450 mm
 H2 = 425 mm
 W1 = 320 mm
 W2 = 290 mm
 D = 9.0 mm
 D1 = 220 mm
 D2 = 250 mm



Pump Unit

A = 260 mm
 B = 205 mm
 C = 430 mm
 D = 500 mm
 E = 140 mm
 F = 215 mm
 G = 150 mm
 H = 117 mm
 I = 100 mm
 J = 156 mm
 K = 180 mm
 L = 220 mm
 M = 18 mm
 N = 200 mm
 O = 144 mm
 P = M16
 Q = 235 mm
 R = 195 mm
 S = 144 mm
 T = 14 mm
 U = 18 mm
 V = 120 mm
 W = 160 mm
 X = 35 mm



	Net weight
Controller	17 kg
Pump Unit	119 kg
Motor	59 kg
Pump End	60 kg

