

PS4000 CS-F42-10-1

Solar Surface Pump System

System Overview

Head	max. 20 m
Flow rate	max. 59 m ³ /h

PS DataModule – Integrated Data Logger and advanced pump management features. Allows for simple system configuration, real-time and stored data plus provides Bluetooth communication to PumpScanner Android™ App and PS Communicator.*

Technical Data

Controller PS4000

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

Power	max. 4.0 kW
Input voltage	max. 375 V
Optimum Vmp**	> 238 V
Motor current	max. 15 A
Efficiency	max. 98 %
Ambient temp.	-30...50 °C
Enclosure class	IP65

Motor ECDRIVE 4000 CS-F

- Maintenance-free brushless DC motor
- Premium materials, stainless steel: AL/AISI 304

Rated power	4.0 kW
Efficiency	max. 92 %
Motor speed	900...3,300 rpm
Insulation class	F
Enclosure class	IPX4

Pump End PE CS-F42-10-1

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



Pump Unit PU4000 CS-F42-10-1 (Motor, Pump End)

Water temperature	max. 70 °C
Suction head	acc. to COMPASS sizing

Standards



2006/42/EC, 2004/108/EC, 2006/95/EC



Type Approved
Safety
Regular Production
Surveillance
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ID 2000000000

IEC/EN 61010-1:2010, IEC 62103:2003, IEC/EN 60034-1:2010,
IEC/EN 60335-2-41:2003+A1+A2,
IEC/EN 60335-1:2012, EN 62233:2008
IEC/EN 61000-6-4:2007+A1, IEC/EN 61000-6-2:2005

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.

* PS DataModule is included in all PSk2 controllers and any PS controllers with –D in their description. –D variants should be ordered if there is a potential need to use the PS DataModule features in the future as this is not a retrofit option.

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

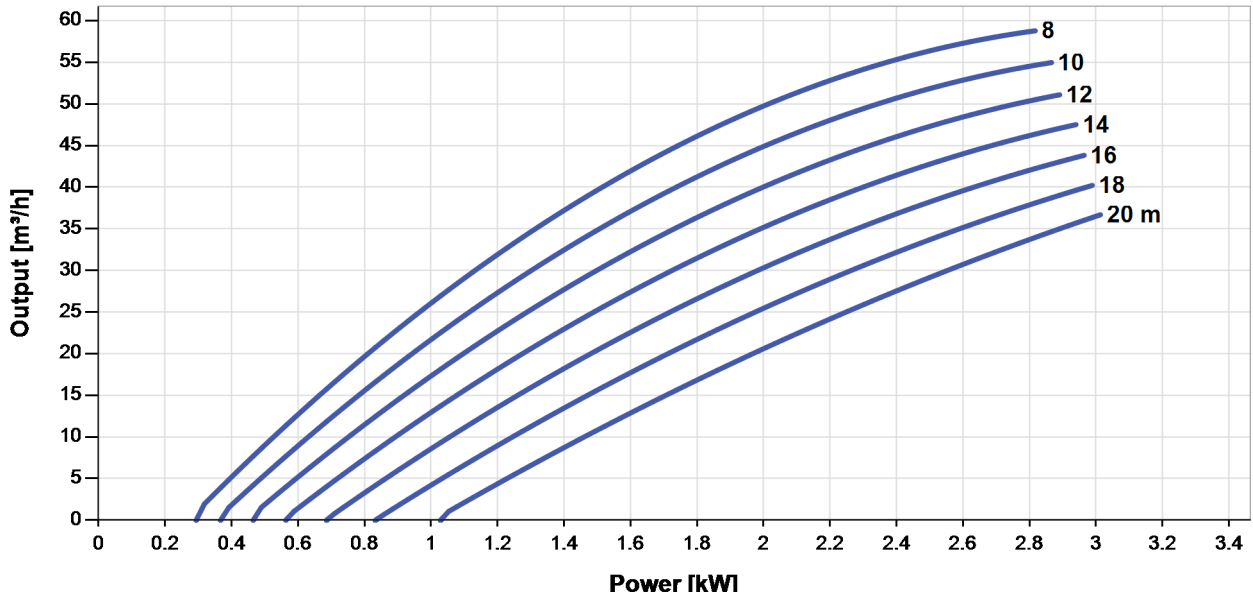


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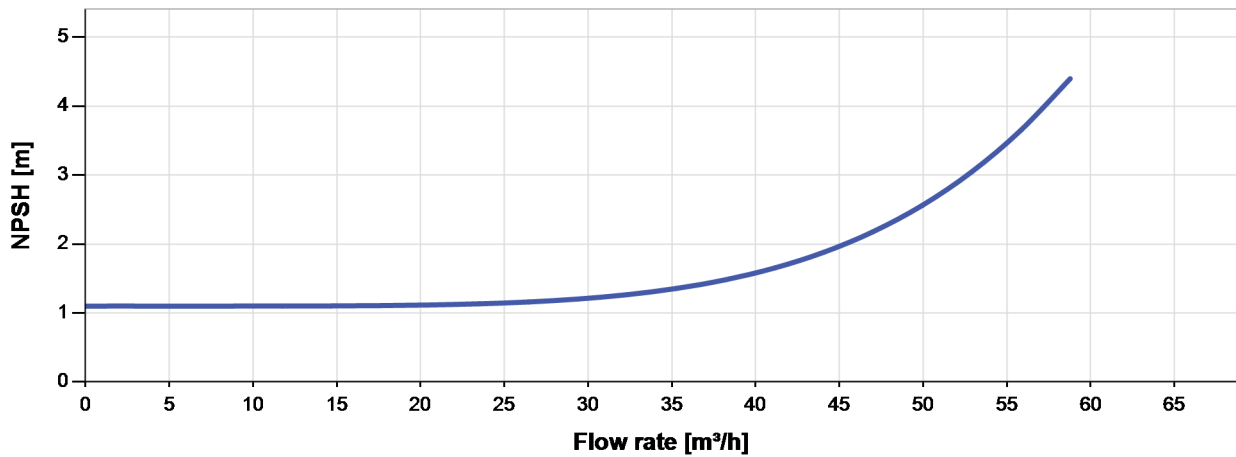
Solar Surface Pump System

Pump Chart

Vmp* > 238 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



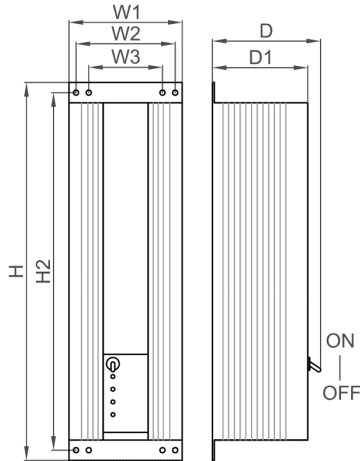
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Dimensions and Weights

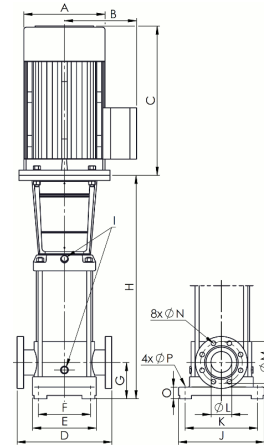
Controller

H = 595 mm
 H2 = 563 mm
 W1 = 178 mm
 W2 = 156 mm
 W3 = 116 mm
 D = 165 mm
 D1 = 150 mm



Pump Unit

A = 162 mm
 B = 132 mm
 C = 286 mm
 D = 365 mm
 E = 245 mm
 F = 190 mm
 G = 140 mm
 H = 561 mm
 I = G1/2"
 J = 330 mm
 K = 266 mm
 L = 80 mm
 M = 160 mm
 N = 18 mm
 O = 45 mm
 P = 14 mm



	Net weight
Controller	6.2 kg
Pump Unit	72 kg
Motor	15 kg
Pump End	57 kg

