

# PSk3-15 CS-F32-60-2

## Solar Surface Pump System

### System Overview

Head	max. 80 m
Flow rate	max. 41 m <sup>3</sup> /h

### Technical Data

#### Controller PSk3-15

- High efficiency solar pump controller
- Integrated hybrid power functions to mix solar with grid / generator power
- Integrated MPPT (Maximum Power Point Tracking)
- Multiple analogue and digital sensor
- Simple configuration with LORENTZ Assitant App
- Onboard data logging and system monitoring with real-time and historic data views
- Inbuilt water applications to manage your pumping system
- SunSensor included for unique pump and motor protection
- Active temperature management

Power	max. 16 kW
Input voltage	max. 850 V
Optimum Vmp**	> 575 V
Motor current	max. 25 A
Efficiency	max. 98 %
Ambient temp.	-25...60 °C
Enclosure class	IP66

#### Motor AC DRIVE CS-F 11kW

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

Efficiency	max. 80 %
Motor speed	1.400...2.905 rpm
Power factor	0,87
Insulation class	F
Enclosure class	IPX4

#### Pump End PE CS-F32-60-2

- Premium materials
- Centrifugal pump

Efficiency	max. 75 %
------------	-----------

#### Pump Unit PU15k CS-F32-60-2 (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/m<sup>2</sup> solar irradiance, 25 °C cell temperature

\*\*\*\*Special solutions available for >70 °C, please consult your distributor

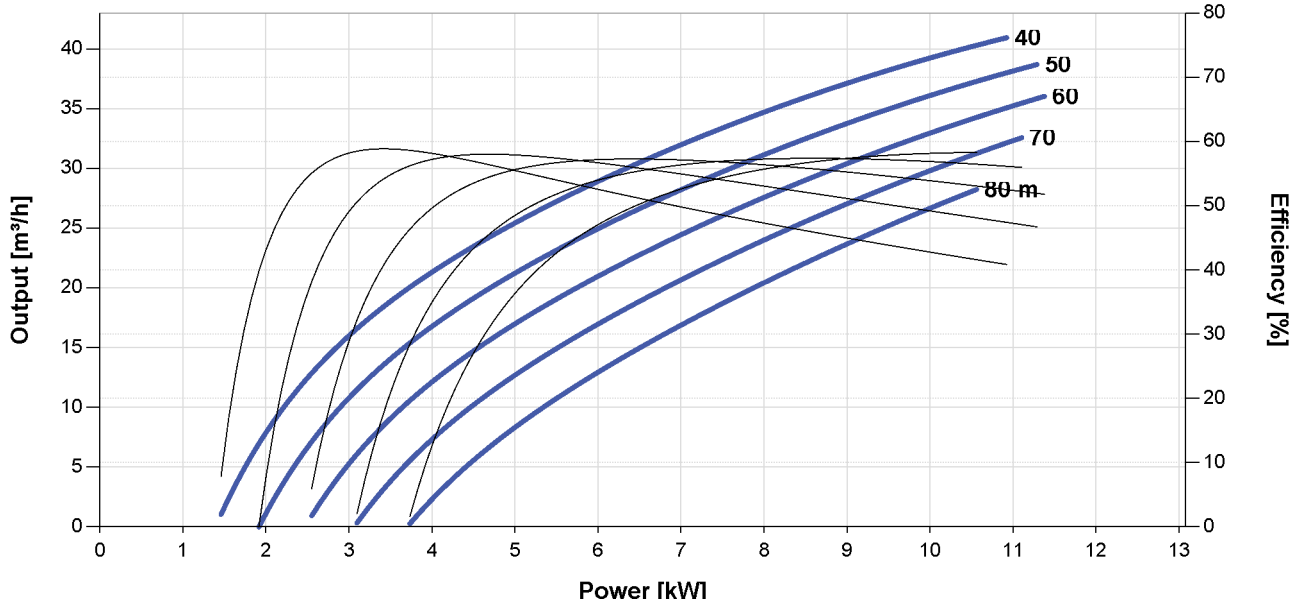


## PSk3-15 CS-F32-60-2

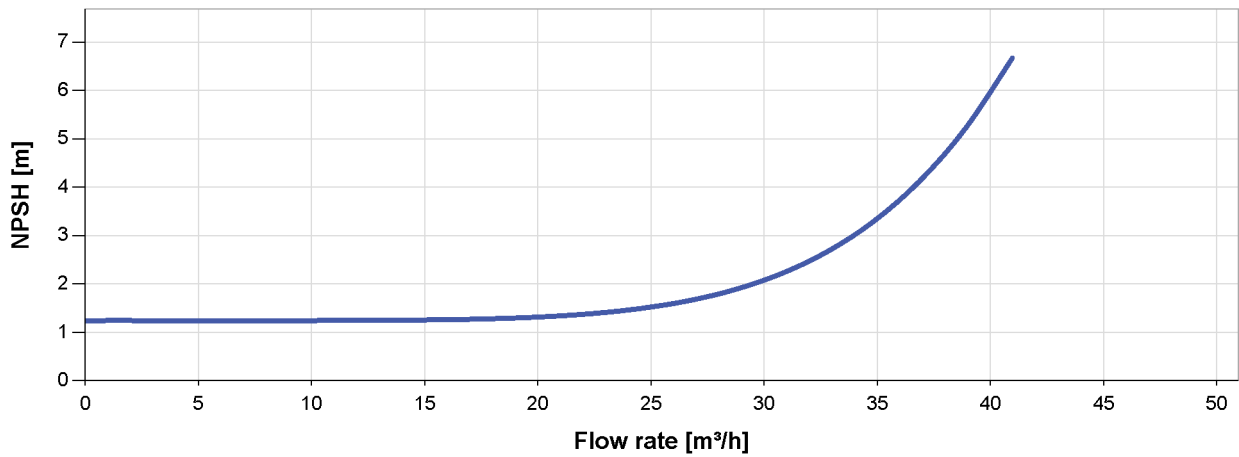
Solar Surface Pump System

### 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



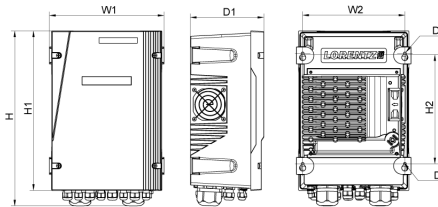
# PSk3-15 CS-F32-60-2

## Solar Surface Pump System

### Dimensions and Weights

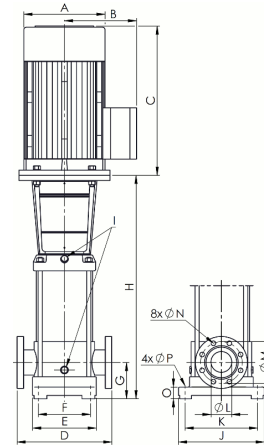
#### Controller

H = 428 mm  
 H1 = 390 mm  
 H2 = 270 mm  
 W1 = 280 mm  
 W2 = 250 mm  
 D = 6,0 mm



#### Pump Unit

A = 330 mm  
 B = 255 mm  
 C = 490 mm  
 D = 320 mm  
 E = 225 mm  
 F = 170 mm  
 G = 105 mm  
 H = 960 mm  
 I = G1/2"  
 J = 298 mm  
 K = 240 mm  
 L = 74 mm  
 M = 145 mm  
 N = 18 mm  
 O = 30 mm  
 P = 14 mm



Net weight

Controller	
Pump Unit	185 kg
Motor	107 kg
Pump End	78 kg

