PS2-1800 CS-37-1

Solar Surface Pump System

System Overview

Head	max. 14 m
Flow rate	max. 36 m³/h

Technical Data

Controller PS2-1800

- 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)
- Battery operation: Integrated low voltage disconnect
- Integrated Sun Sensor

Power	max. 1.8 kW
Input voltage	max. 200 V
Optimum Vmp**	> 102 V
Motor current	max. 14 A
Efficiency	max. 98 %
Ambient temp.	-40...50 °C
Enclosure class	IP68

Motor ECDRIVE 1800 CS-37

- Maintenance-free brushless DC motor
- Premium materials, stainless steel: AL/AISI 304
- No electronics in the motor

Rated power	1.7 kW
Efficiency	max. 92 %
Motor speed	900...3,300 rpm
Insulation class	F
Enclosure class	IPX4

Pump End PE CS-37-1

- Non-return valve
- Premium materials: PP
- Centrifugal pump

Efficiency	max. 57 %

Pump Unit PU1800 CS-37-1 (Motor, Pump End)

Water temperature	max. 60 °C
Suction head / Positive inlet head	max. 3 m

Standards

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

IEC/EN 61702:1995

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

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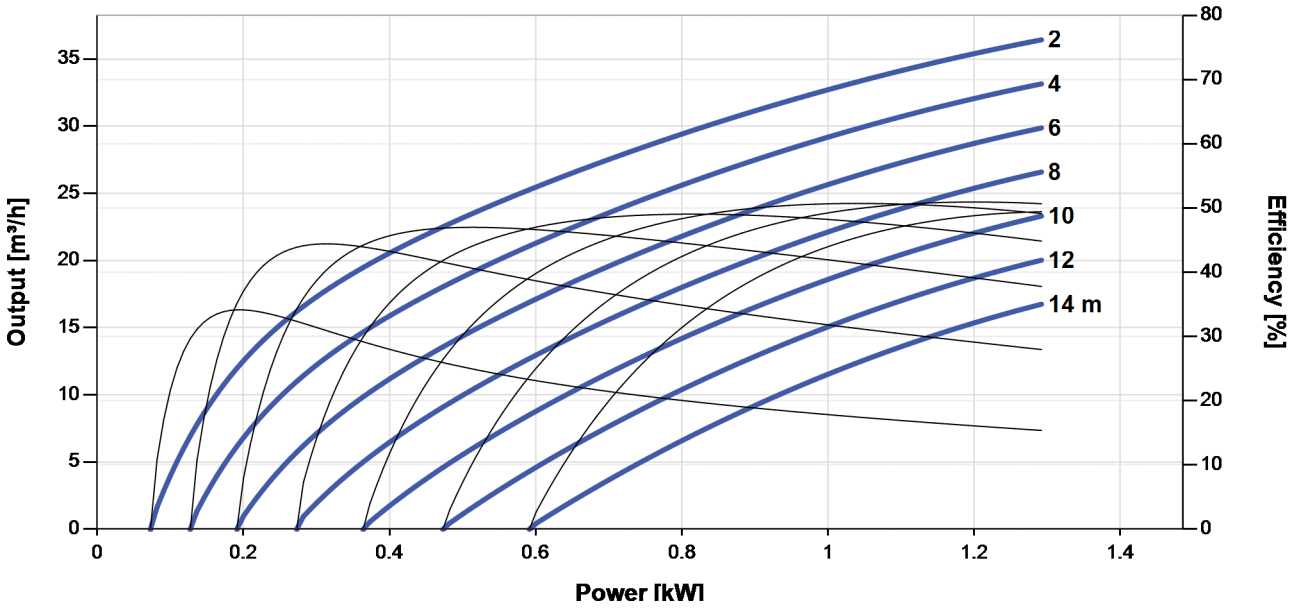
Pump Chart

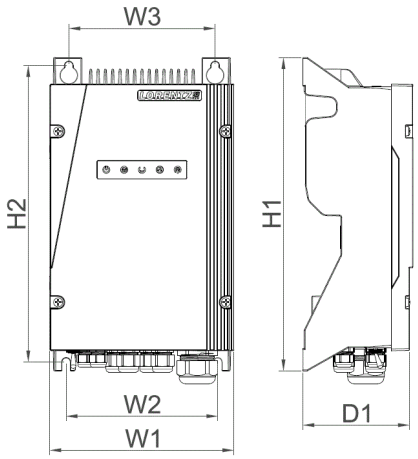
Vmp* > 102 V



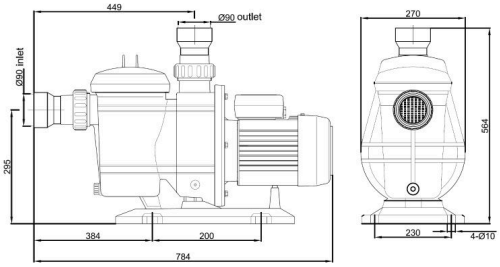
Dimensions and Weights

Controller

H1 = 352 mm
H2 = 333 mm
W1 = 207 mm
W2 = 170 mm
W3 = 164 mm
D1 = 124 mm



Pump Unit [mm]



	Net weight
Controller	6.0 kg
Pump Unit	20 kg
Motor	9.7 kg
Pump End	11 kg

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