PS1800 CS-37-1

Solar Surface Pump System

System Overview

Head	max. 45 ft
Flow rate	max. 153 USG/min

Technical Data

Controller PS1800

- 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

Power	max. 1.8 kW
Input voltage	max. 200 V
Optimum Vmp*	> 102 V
Motor current	max. 14 A
Efficiency	max. 98 %
Ambient temp.	-22...122 °F
Enclosure class	IP54

Motor ECDRIVE 1800 CS-37

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

Rated power	2.3 HP
Efficiency	max. 92 %
Motor speed	900...3,300 rpm
Insulation class	F
Enclosure class	IPX4

Pump End PE CS-37-1

- Premium materials: PP

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

Water temperature	max. 140 °F
Suction head	max. 10 ft

Standards

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

UL 508, 1004, 1081
CSA C22.2 No. 14, 100, 108

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

Sun. Water. Life.

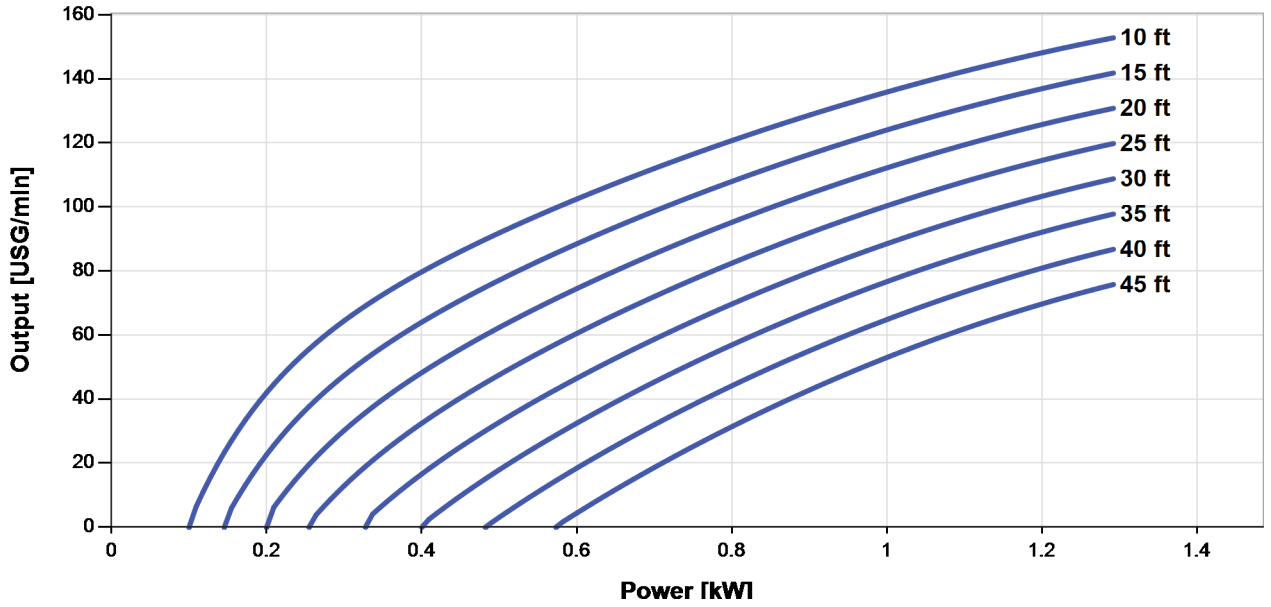
Created by LORENTZ COMPASS 3.0.10.6
All specifications and information are given with good intent, errors are possible and products may be subject to change without notice.Pictures may differ from actual products depending on local market requirements and regulations.

PS1800 CS-37-1

Solar Surface Pump System

Pump Chart

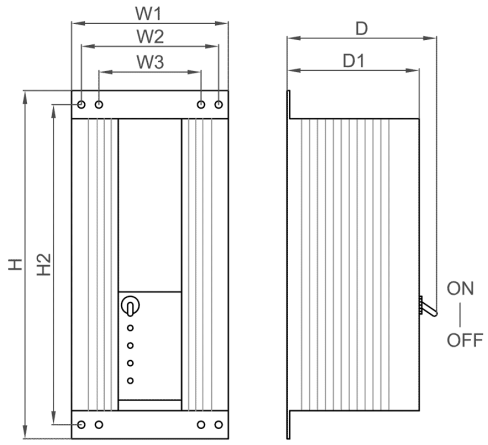
Vmp* > 102 V



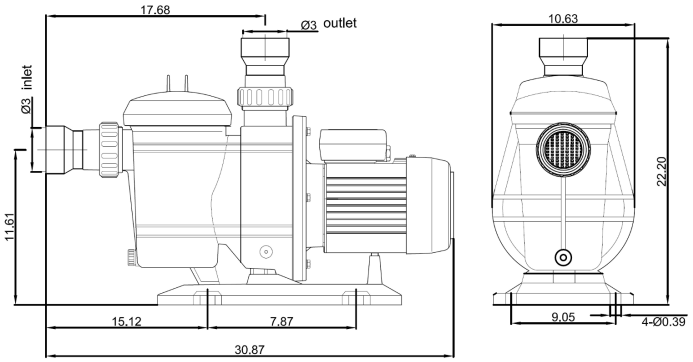
Dimensions and Weights

Controller

H = 16 in
H2 = 14 in
W1 = 7.0 in
W2 = 6.1 in
W3 = 4.6 in
D = 6.5 in
D1 = 5.9 in



Pump Unit [in]



	Net weight
Controller	9.9 lbs
Pump Unit	45 lbs
Motor	22 lbs
Pump End	23 lbs

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

Sun. Water. Life.

Created by LORENTZ COMPASS 3.0.10.6
All specifications and information are given with good intent, errors are possible and products may be subject to change without notice.Pictures may differ from actual products depending on local market requirements and regulations.