



SUPERPUMP

water pumps

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LORENTZ PS2-100

Self install high efficiency solar pump system



LORENTZ PS2-100 is a high quality, high efficiency, cost effective solar pump system designed for self installation

LORENTZ PS2-100 is designed and built using LORENTZ 25 years experience in off-grid water pumping systems. The systems sets a new level of quality and reliability for small pumping systems.

The submersible pump is flexible to serve a wide range of flow and head requirements and designed for the long life needed in productive use cases such as livestock water and irrigation. The system offers "plug and play" installation.

LORENTZ PS2-100

Features and description

General description

- High efficiency solar powered water pumping system
- Submersible helical rotor pump and high efficiency DC brushless motor
- Plugged connections for customer self install
- Replaceable cables for long life
- Multiple pump ends to match local pumping requirements (HR07/14/23)
- Maximum 30m / 98ft head and 3.1m³/h / 13.6 gall/min flow rate

Dimensions and weights

Pump unit

- Length 407 mm / 16.02 "
- Width (diameter) 88 mm / 3.46 "
- Weight 8Kg / 17lbs

Controller

- Height 29 mm / 1.15 "
- Length 102 mm / 4.01 "
- Width 120 mm / 4.72 "
- Weight 700g / 1.5lbs

Materials

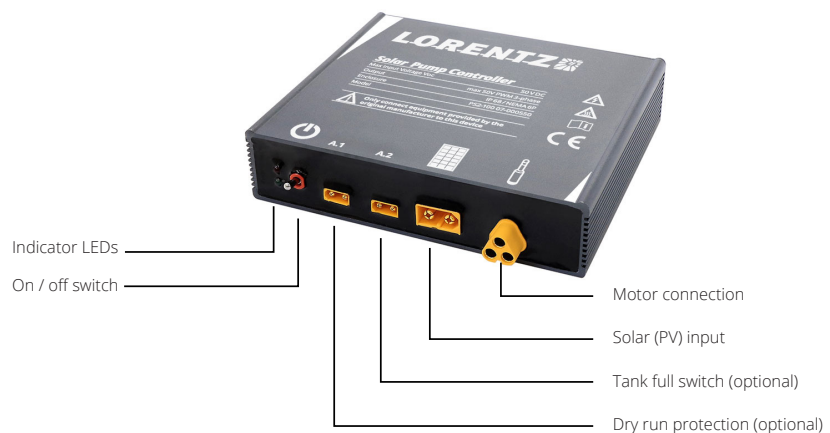
Pump unit

- Motor cast stainless steel
- Rotor solid stainless steel
- Stator housing polyphenylene sulfide with glass fill
- Water filled motor

Controller

- Aluminum housing
- Fully resin encapsulated

Connections



Technical data

Maximum voltage	55VDC
Max. ambient temperature	55C (131F)

Usability

- LED indication of operational status on Controller
- Simple on/off switch to control pumping

Equipment

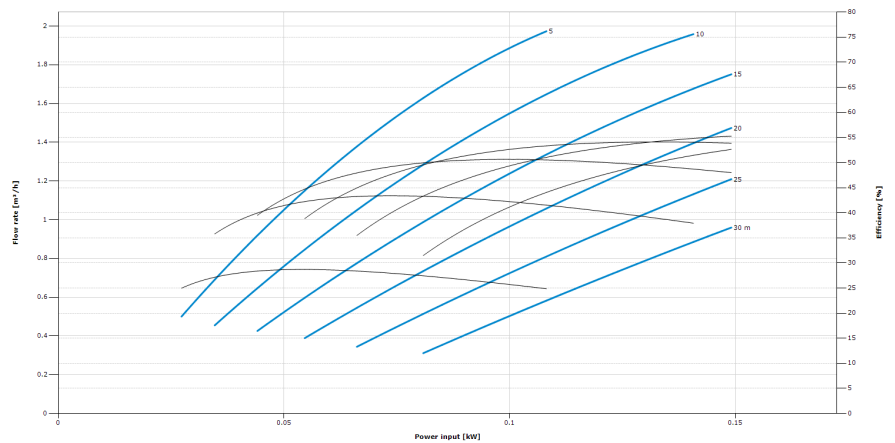
Included

- Controller with inputs for PV, pump, run dry protection and tank full float switch
- Motor with socket
- Helical rotor pump
- Motor cable with plug (15m / 49.2ft)
- Bracket for controller mounting under PV module
- Solar input to MC4 converter cable

Optional

- Dry run float switch with cable
- Float switch for tanks with cable

Hydraulic performance example for HR14

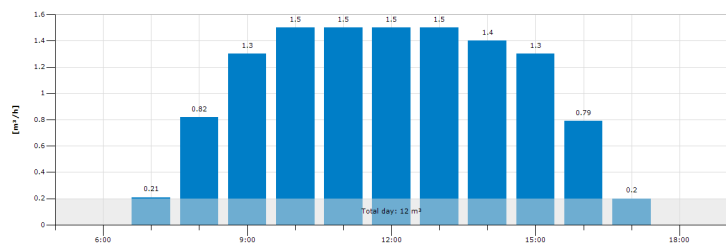
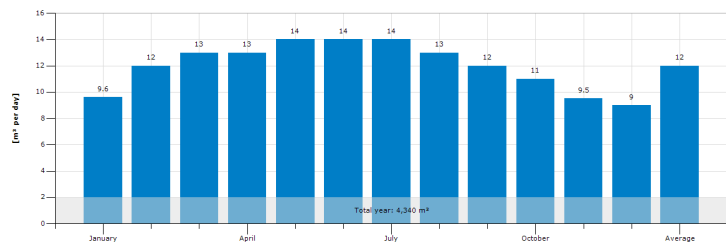


Real world performance

This system would typically be powered by a single 60 or 72 cell module in the power range of 180Wp to 260Wp.

Maximum input voltage Voc is 55VDC

Average daily performance shown is with 10m (33ft) head and a 260Wp 60 cell PV module in Central Spain (39N 3W)



About LORENTZ

LORENTZ is the global market leader in solar powered water pumping solutions. Founded in Germany during 1993 LORENTZ has pioneered, innovated and excelled in the engineering and manufacturing of solar powered water pumping. Today LORENTZ is active in over 130 countries through a dedicated network of professional partners. LORENTZ technology uses the power of the sun to pump water, sustaining and enhancing the life of millions of people, their livestock and crops.

Simply – **Sun. Water. Life.**

