

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 system 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.

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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 40 m / 131 ft head and 2.8 m³/h / 12.3 gall/min flow rate

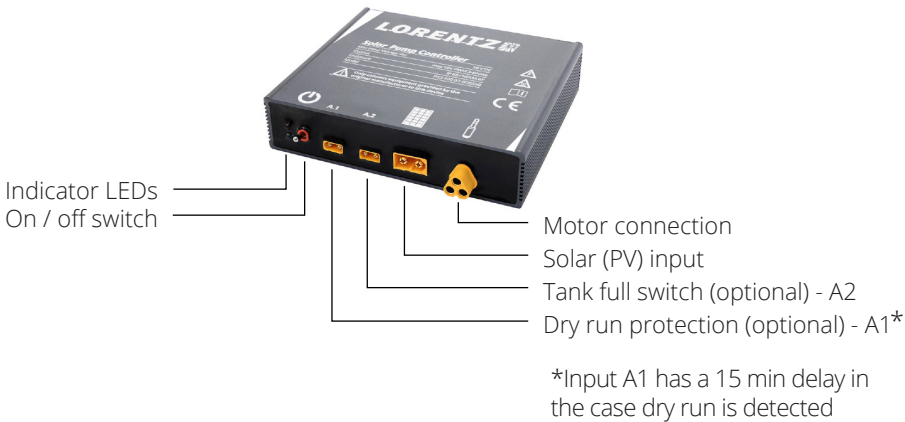
Dimensions and weights

- | Pump unit | Controller |
|-----------------------------------|--------------------------|
| • Length 455 mm / 17.91 " | • Height 29 mm / 1.15 " |
| • Width (diameter) 88 mm / 3.46 " | • Length 115 mm / 4.53 " |
| • Weight 5.5 kg / 12 lbs | • Width 122 mm / 4.80 " |
| | • Weight 700 g / 25oz |

Materials

- | Pump unit | Controller |
|---|----------------------------|
| • Motor cast stainless steel | • Aluminum housing |
| • Rotor solid stainless steel | • Fully resin encapsulated |
| • Stator housing polyphenylene sul-fide with glass fill | |
| • Water filled motor | |

Connections



Technical data

- | | |
|--------------------------|------------|
| Maximum voltage | 50VDC |
| Max. ambient temperature | 50C (122F) |

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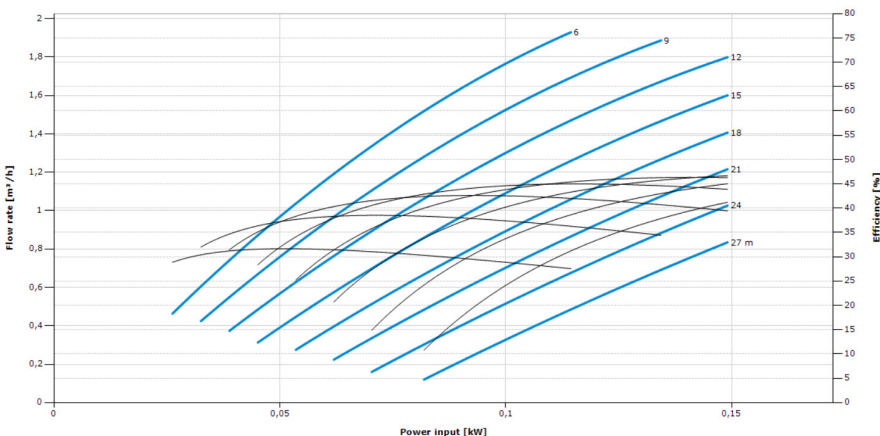
Usability

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

Equipment

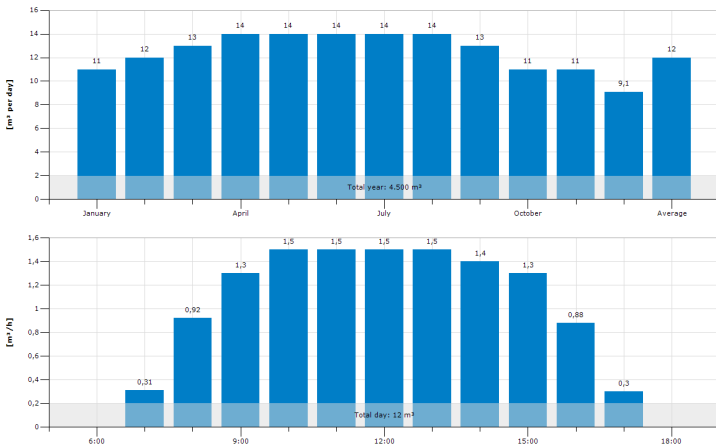
- | Included | Optional |
|--|--|
| • Controller with inputs for PV, pump, run dry protection and tank full float switch | • Well probe for dry run protection with cable |
| • Motor with socket | • Float switch for tanks with cable |
| • Helical rotor pump | • 15 m / 50 ft motor extension cable with plug |
| • Motor cable with plug (15 m / 50 ft) | • 15 m / 50 ft well probe/float switch extension cable with plug |
| • Bracket for controller mounting under PV module | |
| • Solar input to MC4 adapter 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 180 Wp to 260 Wp. Maximum input voltage Voc is 50VDC Average daily performance shown is with 10 m (33 ft) head and a 260 Wp 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.**



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