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LORENTZ 

PSk2 Surface Solar Pump Systems

Centrifugal Pump Systems

LORENTZ PSk2 systems are our next generation of solar water pumps designed to deliver the highest volume of water across a wide range of lifts. PSk2 pumps perform equally well in irrigation projects and for a wide area of drinking water application where they reliably meet the most demanding requirements, economically and without the use of fossil fuels or a grid connection.

PSk2 provides all of the features and functions that larger scale water projects require including a wide range of sensor inputs and intelligent monitoring and management. PSk2 is also compatible with LORENTZ CONNECTED services for cost effective remote monitoring and management. Although technically advanced, PSk2 is simple to specify, install and maintain and provides exceptional performance driven by LORENTZ long experience of off grid solar pumping.

Benefits

- Very strong ROI against grid based powered pumping, reducing water production costs and reducing carbon footprint
- Advanced power management techniques to deliver the most water based on the power available
- Comprehensive inputs and outputs to provide a cost effective single unit solution
- Wide range of products to closely match each application and optimize efficiency
- Fast specification, installation and configuration allow for fast implementation and minimal downtime
- Smart modular product design for simple and cost effective product repair
- Powerful robust monitoring and control features provide detailed operational information and simple access to advanced features

Features

- Engineered in Germany using high quality non combustible materials
- IP54/NEMA34 corrosion resistant composite housing
- 0-60Hz motor speed control
- Wide range of inputs to influence pump behaviour
- Integrated monitoring and management including onboard recording of 5 years performance data, smart device access via PumpConnecter Android™ app and integration to LORENTZ pumpMANAGE™ remote management service
- Input validation, measurement and pump control based on power available
- Integration with the LORENTZ SmartPSU for grid/generator connection and power blending

pump system	PS 742	PS 862	PS 1362	PS 2162	PS 2562	PS 4062
max. total dynamic head (TDH) [m]	295	260	260	260	130	300
max. flow rate [l/s/GPM]	30,100	31,700	73,700	90,850	120,750	131,100
max. operation range (input voltage) [Vdc]	max. 850	max. 850	max. 850	max. 850	max. 850	max. 850

Find out more visit www.lorentz.de

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All specifications and information are given with good intent. However, no guarantee or products may be subject to change without notice. Material, design, technical specifications and other data may be subject to change without notice. In accordance with applicable laws and regulations, a pump system consists of a controller, motor and pump assembly. Multiple pump systems are subject to represent the wide range of pumps from 700W to 4000W DC.

Sun. Water. Life.

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PS Surface Solar Pump Systems



Benefits Features

- LORENTZ PS Surface Pumps are high quality products designed for water transfer, good management and irrigation applications where a surface pump is required.**

The LORENTZ PS range of DC powered surface pumps are connected to a solar generator via a controller. The controller provides inputs for monitoring storage tank levels, controlling the pump speed and uses maximum power point tracking technology to optimize the water volume that is pumped.
- Long life expectancy and proven in service record
 - Designed for use in remote and harsh conditions
 - Smart modular design for simple and cost effective servicing and repair
 - Fast and simple installation
 - Cost effective spare parts philosophy
 - Very strong ROI against diesel powered pumping reducing production costs and reducing carbon footprint
- Engineered in Germany
 - High quality non-corrosible materials used throughout
 - Solar direct connect with AC connection options
 - MPPT technology to maximize power via from PV modules
 - EC Drive DC brushless motors, designed for solar with over 90% efficiency
 - Optional data logger



pump system	PS150 Boost	PS400CS-F	PS1800CS-F	PS4000CS-F
max. total dynamic head (TDH) [m]	500	150	160	230
max. flow rate [l/s/GPM]	345	2,200	2,250	15,000
solar operation:				
max. power voltage (Vmp)* [VDC]	> 17	> 68	> 102	> 228
open circuit voltage (Voc) [VDC]	max. 50	max. 150	max. 200	max. 375
nominal voltage [VDC]	12–24	24–48	72–96	168–192
battery operation:				
nominal voltage [VDC]	12–24	48	96	n.a.
pump type	positive displacement	centrifugal pump	centrifugal pump	centrifugal pump

*V_{mp} in module at standard test condition: 1000 W/m², 1.5, 25 °C, air temperature 20 °C

To find out more visit www.lorenz.de

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