

# 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 applications where they reliably meet the most demanding requirements, economically and without the use of fossil fuels or a grid connection.

Where flexibility is needed PSk2 utilizes our SmartSolution hybrid power. Solar power is automatically blended with generator or grid power to meet any pumping requirement.

PSk2 provides all of the features and functions that larger scale water projects require including a wide range of sensor inputs and inbuilt 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 diesel 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 pumps to closely match each application and optimize efficiency
- Smart modular product design for simple and cost effective product repair
- Powerful inbuilt monitoring and control features provide detailed operational information and simple access to advanced features

### Features

- Engineered in Germany using high quality non-corrodible materials
- IP54/NEMA 3A corrosion resistant controller 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 PumpScanner Android™ App and integration to LORENTZ pumpMANAGER remote management service
- Inbuilt irradiation measurement and pump control based on power available
- Integration with the LORENTZ SmartSolution for automatic grid/generator connection and power blending



pump system		PSk2-7	PSk2-9	PSk2-15	PSk2-21	PSk2-25	PSk2-40
max. total dynamic head (TDH)	[m]	90	80	80	80	40	90
max. flow rate	[m <sup>3</sup> /h]	114	120	279	306	457	499
solar operation:							
open circuit voltage (Voc)	[VDC]	max. 850	max. 850	max. 850	max. 850	max. 850	max. 850

To find out more visit [www.lorentz.de](http://www.lorentz.de)

**BERNT LORENTZ GmbH & Co. KG**

Siebenstuecken 24, 24558 Henstedt-Ulzburg, Germany, Tel. +49 (0) 4193 8806 – 700

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. A pump system consists of a controller, motor and pump end. Multiple pumps/pump ends are shown to represent the wide range of pumps (over 70) that LORENTZ has.

**Sun. Water. Life.**