

PS Surface Solar Pump Systems



LORENTZ PS Surface Pumps are high quality products designed for water transfer, pond 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.

Benefits

- 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

Features

- Engineered in Germany
- High quality non corrodible materials used throughout
- Solar direct connect with AC connection options
- MPPT technology to maximise power use from PV modules
- EC DRIVE DC brushless motors, designed for solar with over 90 % efficiency
- Optional data logger



pump system		PS150 Boost	PS600 CS-F	PS1800 CS-F	PS4000 CS-F
max. total dynamic head (TDH)	[m]	150	40	50	70
max. flow rate	[m ³ /h]	1.3	8.3	8.5	59
solar operation:					
max. power voltage (Vmp)*	[VDC]	> 17	> 68	> 102	> 238
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 and 24	48	96	n.a.
pump type		positive displacement	centrifugal pump	centrifugal pump	centrifugal pump

*) PV modules at standard test condition: AM = 1.5, E = 1,000W/m², cell temperature: 25 °C