

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

To find out more visit www.lorentz.de

Rainbow Power Co

Rainbow Power Company
www.rpc.com.au
+61 (0)2 6689 1430

LORENTZ 
Sun. Water. Life.