PS2 Helical Rotor Solar Pump Systems

Submersible Pump Systems for 4" and 6" Wells




LORENTZ PS2 helical rotor pumps are high quality products designed for drinking water supply, livestock watering and smaller irrigation applications. PS2 helical rotor pump systems deliver water economically, cleanly and reliably, anywhere.

The LORENTZ PS2 range of DC powered helical rotor pumps have been designed specifically to pump water efficiently using solar power. The helical rotor pump is simple, efficient and reliable, pumping water with very low levels of solar power from up to 450 m below the ground.

Each system consists of a pump, pump motor and a controller. This modular concept keeps all electronics above ground providing simple servicing, ease of access and a low cost of ownership. PS2 has extensive connectivity options for sensors and switches, in built software applications and data logging to meet all of your pumping needs.

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
- Highest efficiency, pumps more water than the competition, starts earlier in the day and finishes later
- Fast and simple installation
- Cost effective spare parts philosophy
- Large range of pumps to closely match each application and optimise efficiency
- Simple configuration, diagnostics and performance data via free LORENTZ PumpScanner Android™ App

Features

- Engineered in Germany
- Water temperature specific variants to provide the most efficient outputs
- High quality non corrodible materials used throughout
- Solar direct connect with AC connection options
- MPPT technology to maximise power use from PV modules
- ECDRIVE DC brushless motors, designed for solar, with over 90 % efficiency
- Inbuilt data logger with wireless access
- Multi LED display for simple operation
- Multiple analog and digital inputs and outputs for ultimate connectivity

pump system		PS2-200 HR	PS2-600 HR	PS2-1800 HR	PS2-4000 HR
max. total dynamic head (TDH)	[m]	50	180	250	450
max. flow rate	[m³/h]	2.6	2.6	3.9	2.5
solar operation:					
max. power voltage (Vmp)*	[V DC]	>34	>68	>102	>238
open circuit voltage (Voc)	[V DC]	max. 100	max. 150	max. 200	max. 375
nominal voltage	[V DC]	24–48	48–72	72–96	168–192
battery operation:					
nominal voltage	[V DC]	24 and 48	48	96	n.a.

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

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