Sun. Water. Life.

LORENTZ

PS Solar Pump Systems

Submersible Pump Systems, 4“ and 6“

PS1800 C-SJ5-12 PS1200 HR-03H

pictures may differ from actual products

Applications

- drinking water supply
- lifestock watering
- pond management
- irrigation
- etc.

Characteristics

- fast, failure-free installation
- excellent serviceability
- high reliability and life expectancy
- short Return of Investment (ROI) cycle
- lower Total Cost of Ownership (TCO)

Helical Rotor (HR) Types

pump system			PS200 HR	PS600 HR	PS1200 HR	PS1800 HR	PS4000 HR
max. total dynamic head (TDH)		[m | ft]	50 | 170	180 | 590	240 | 790	250 | 820	350 | 1,150
max. flow rate		[m³/h | 1,000 US gal./h]	2.7 | 0.7	2.7 | 0.7	2.7 | 0.7	4.0 | 1.1	2.4 | 0.6
solar operation:	max. power voltage (Vmp)*	[V DC]	> 34	> 68	> 102	> 102	> 238
	open circuit voltage (Voc)	[V DC]	max. 100	max. 150	max. 200	max. 200	max. 375
	nominal voltage	[V DC]	24 – 48	48 – 72	72 – 96	72 – 96	168 – 192
battery operation:	nominal voltage	[V DC]	24 – 48	48	72 – 96	72 – 96	n.a.

Centrifugal (C) Types

pump system			PS150 C	PS600 C	PS1200 C	PS1800 C	PS4000 C
max. total dynamic head (TDH)		[m | ft]	20 | 65	25 | 80	40 | 130	100 | 330	170 | 560
max. flow rate		[m³/h | 1,000 US gal./h]	5.0 | 1.3	11 | 2.9	20 | 5.3	51 | 13.5	70 | 18.5
solar operation:	max. power voltage (Vmp)*	[V DC]	> 17	> 68	> 102	> 102	> 238
	open circuit voltage (Voc)	[V DC]	max. 50	max. 150	max. 200	max. 200	max. 375
	nominal voltage	[V DC]	12 – 24	48 – 72	72 – 96	72 – 96	168 – 192
battery operation:	nominal voltage	[V DC]	12 – 24	48	72 – 96	72 – 96	n.a.

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

Controller: PS

- controlling and monitoring
- control inputs for well probe, dry running protection, remote control etc.
- protected against reverse polarity, overload and high temperature
- solar operation: integrated MPPT (Maximum Power Point Tracking)
- battery operation: low voltage disconnect

Motor: ECDRIVE HR/C

- maintenance-free brushless DC motor
- water-filled
- no electronics in the motor
- submersion max. 250 m water column, IP68
- premium materials

Pump End: PE HR/C

- high life expectancy
- non-return valve
- premium materials
- optional: dry running protection

For further details visit www.lorentz.de

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PS Solar Pump Systems

Surface Pump Systems

Applications

- drinking water supply
- lifestock watering
- pond management
- water circulation through swimming-pool filter systems or thermal collectors
- pressurising home water systems
- irrigation
- etc.

Characteristics

- fast, failure-free installation
- excellent serviceability
- high reliability and life expectancy
- short Return of Investment (ROI) cycle
- lower Total Cost of Ownership (TCO)

PS150 Boost

PS600 CS-15-1*

PS1800 CS-36-1

pictures may differ from actual products

pump system			PS150 Boost	PS600 CS-15-1*	PS1800 CS-36-1
max. total dynamic head (TDH)		[m | ft]	120 | 400	14 | 45	16 | 55
max. flow rate		[m³/h | 1,000 US gal./h]	1.3 | 0.35	15 | 4.0	36 | 9.5
solar operation:	max. power voltage (Vmp)**	[V DC]	> 17	> 68	> 102
	open circuit voltage (Voc)	[V DC]	max. 50	max. 150	max. 200
	nominal voltage	[V DC]	12 – 24	48 – 72	84 – 96
battery operation:	nominal voltage	[V DC]	12 – 24	48	96
pump type			positive displacement	centrifugal pump	centrifugal pump
integrated strainer			-	■	■
suitable for sea water			-	on request	on request

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

Controller: PS

- controlling and monitoring
- control inputs for well probe, dry running protection, remote control etc.
- protected against reverse polarity, overload and high temperature
- solar operation: integrated MPPT (Maximum Power Point Tracking)
- battery operation: low voltage disconnect

Motor: ECDRIVE Boost/CS

- maintenance-free brushless DC motor
- no electronics in the motor
- premium materials

Pump End: PE Boost/CS

- high life expectancy
- premium materials
- optional: dry running protection

*) PS600 CS-15-1 was formerly sold under the name PS600 BADU Top12. The product is identical.

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