

PS Solar Pump Systems

Submersible Pump Systems for 4" and 6" Wells

Application

- drinking water supply
- livestock 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)



Picture may differ from actual product

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	[m ³ /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)*	[VDC]	> 34	> 68	> 102	> 102	> 238
open circuit voltage (Voc)	[VDC]	max. 100	max. 150	max. 200	max. 200	max. 375
nominal voltage	[VDC]	24–48	48–72	72–96	72–96	168–192
battery operation: nominal voltage	[VDC]	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	[m ³ /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)*	[VDC]	> 17	> 68	> 102	> 102	> 238
open circuit voltage (Voc)	[VDC]	max. 50	max. 150	max. 200	max. 200	max. 375
nominal voltage	[VDC]	12–24	48–72	72–96	72–96	168–192
battery operation: nominal voltage	[VDC]	12–24	48	72–96	72–96	n.a.

*) PV modules at standard test condition: AM = 1.5, E = 1,000W/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. 250m water column, IP68
- premium materials

Pump End: PEHR/C

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

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Surface Pump Systems

Application

- drinking water supply
- livestock 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

Picture may differ from actual product

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)**	[VDC] > 17	> 68	> 102
	open circuit voltage (Voc)	[VDC] max. 50	max. 150	max. 200
	nominal voltage	[VDC] 12–24	48–72	84–96
battery operation:	nominal voltage [VDC]	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 = 1,000W/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.