

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)



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)*	[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	[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)*	[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

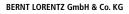
- controlling and monitoring
- control inputs for well probe, dry running protection, remote control etc.
- protected against reverse polarity, overload and high temperature
- solar operation: integrated MPPT (Maximum Power Point Tracking)
- battery operation: low voltage disconnect

Motor: ECDRIVE HR/C

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

Pump End: PE HR/C

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





PS Solar Pump Systems 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)







PS600 CS-15-1 PS1800 CS-36-1

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 = 1,000 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