

PS 9k/15k

Solar-operated Submersible AC Pump Systems

Characteristics

- flow rate up to 63 m³/h
- lift up to 150 m
- maintenance-free
- high efficiency

Application

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

Components

Motor

- 3-phase AC motor
- corrosion-resistant, all stainless steel exterior construction
- stainless steel splined shaft
- NEMA mounting dimensions
- hermetically-sealed windings
- water lubrication
- pressure equalizing diaphragm
- max. submerged depth: 700 m/2,300 ft
- max. water temperature: 30 °C/86 °F
- PH value: 6-9
- IP 68

Pump End (PE)

- centrifugal multistage direct-coupled pump end
- non-return valve
- material: stainless steel (AISI 304), rubber
- dry running protection (optional)
- max. sand content: 50 g/m³, a higher content will wear the pump and reduce its life span considerably
- max. salt content: 300–500 ppm at max. 30 °C/85 °F, higher salt contents require lower water temperatures
- pH value: 6–9
- high life expectancy

Performance

		PS 9k	PS 15k
output power, nominal	[kW]	7.5	11.0
output voltage	[VAC]	380–440	380–440
max. input voltage, Voc	[VDC]	750	750
min. input voltage, Vmp	[VDC]	500	500
max. flow rate	[m ³ /h]	63	60
max. vertical lift	[m]	150	140

Controller PSkAC

- controlling of the pump system and monitoring of the operating states
- mounted at surface (no electronic parts submerged)
- two control inputs for well probe (dry running protection), float or pressure switches, remote control etc.
- automatic reset 20 minutes after well probe turns pump off
- data logger for historical dates: running time, starting/shut down time of day, max. power/voltage of day, accumulated energy of day etc.
- display of current running data such as: input/output current/power/voltage, pump speed, temperature
- speed control selectable, max. and min. speed
- solar operation: integrated MPPT (Maximum Power Point Tracking)
- input: Voc max. 750VDC, Vmp min. 500VDC
- output: 400VAC 3-phase, 30–60 Hz
- max. efficiency 97 %, advanced IGBT
- enclosure: IP 41 (sealed, weatherproof)
- ambient temperature: –10 to +45 °C

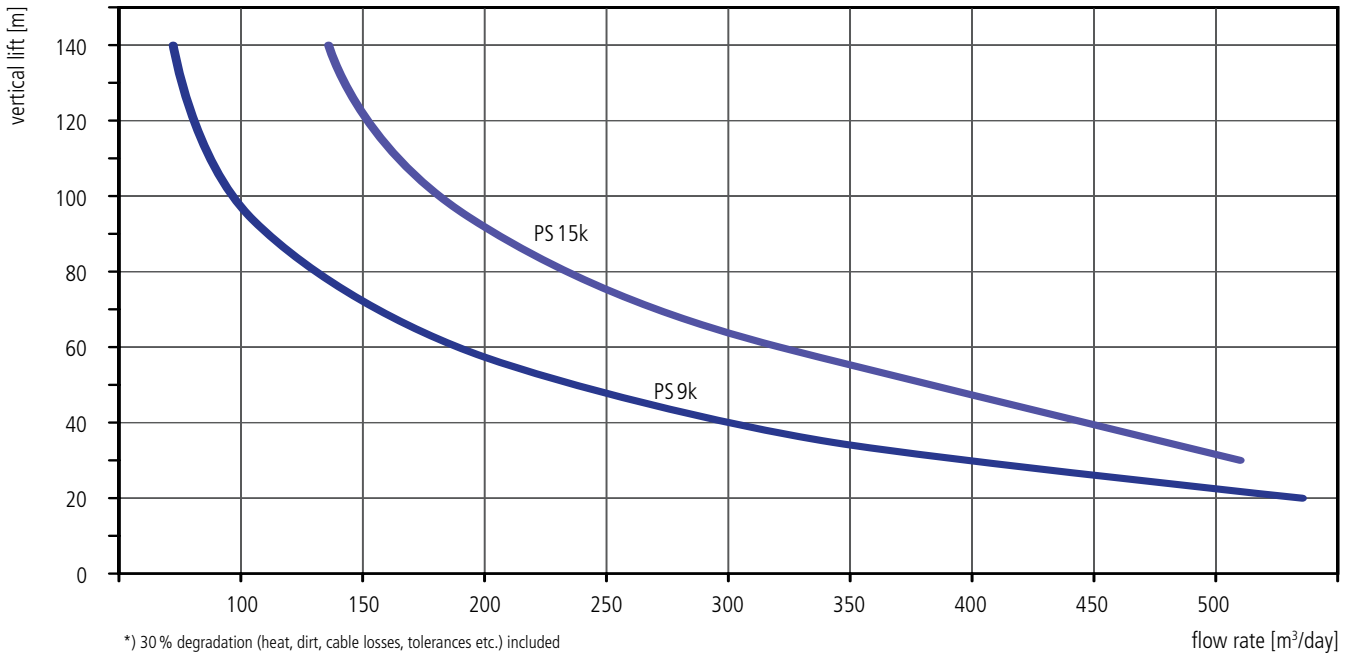


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Daily Flow Rate | 8.5 peak flow hours per day, PV generator* 9/15 kWp, Vmp 500–600VDC, tracked, 6 kWh/m²/day



Dimensions and Weight

Model	Dimension							Weight
	A	B	C	D	E _{max}	BSP	Minimum Bore-hole Diameter	
Pump	[mm]	[mm]	[mm]	[mm]	[mm]	[in]	[in / mm]	[kg]
SJ8-37	2,569	772	1,797	96	98	2	4 / 104	77
SJ8-44	2,863	772	2,091	96	98	2	4 / 104	81
SJ17-11	1,568	645	923	138	140	2 ½	6 / 150	75
SJ17-18	2,083	711	1,372	138	140	2 ½	6 / 150	89
SJ30-7	1,583	645	938	138	140	3	6 / 150	72
SJ30-11	2,049	711	1,338	138	140	3	6 / 150	85
SJ30-12	2,145	711	1,434	138	140	3	6 / 150	88
SJ42-4	1,362	645	717	138	140	3	6 / 150	70
SJ42-6	1,670	711	959	138	140	3	6 / 150	82

Controller	W	H	D	W1	H1	D1	d	Weight
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	
Device	250	310	200	235	295	167	7	9
Packing	320	400	250					10

