

PS600 BADU Top12

Solar Operated Centrifugal Surface Pump

Application

- swimming pool water circulation through a filter system and thermal collectors
- pond management
- irrigation
- aquariums
- etc.

Components

Pump End (PE) BADU Top 12

- monoblock-type pump with integrated strainer tank
- bellows mechanical seal is mounted on a plastic shaft protected sleeve
- motor/pump shaft has no contact with fluid
- total electric separation
- strainer capacity approx. 3 l
- strainer basket mesh size approx. 3.2 x 2.6 mm

Material Used For Pump End

- pump casing, strainer basket: PP
- flange, gland housing: PP TV 40
- diffuser: PP TV 40
- impeller: PA 66 GF 30 / PC
- lid: PC, transparent
- mechanical seal: carbon / ceramic / NBR
- bolts: steel, galvanized

Motor ECDRIVE 600 BADU Top

- brushless, maintenance-free DC motor

Warranty

Two years manufacturer's warranty against defects in material and workmanship



Controller PS600

- controlling of the pump system and monitoring of the operating states
- mounted at surface (no submerged electronic parts)
- 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
- protected against reverse polarity, overload and high temperature
- speed control, max. pump speed adjustable to reduce flow rate to approx. 30 %
- solar operation: integrated MPPT (Maximum Power Point Tracking)
- battery operation: low voltage disconnect and restart after battery has recovered
- max. efficiency 92 % (motor + controller)

13261 Timberline Plaza, Suite B
Piedmont, SD 57769
www.genproenergy.com

Phone: 605.341.9920
Fax: 605.341.9918
E-mail: info@genproenergy.com

System Sizing Table

Solar generator: nominal voltage
48-72 V DC, open circuit voltage
max. 150 V DC

Basis of Calculation: The power output of the solar generator is reduced by 17% (degradation caused by ageing, dust, temperature influences etc. Is taken into account.

Total Inlt (static + dynamic) [m/ft]	Solar Generator [Wp]	Irradiation [KWh/m ² /day]	Solar-Generator not tracked/flowrate				Solar-Generator or single load tracked/flowrate			
			[m ² /day]	US gal/day	Imp. Gal/day	[m ² /day]	US gal/day	Imp. Gal/day		
2/6.5	340	4.5	54.0	14300	11900	76.7	20300	16900		
		6	70.0	18500	15400	105	27700	23100		
		7.5	82.0	21700	18000	131.2	34700	28900		
	400	4.5	61.0	16100	13400	86.6	22900	19100		
		6.0	78.0	20600	17200	117.0	30000	25700		
		7.5	92.0	24300	20200	147.2	38000	32400		
	480	4.5	71.0	18800	15800	100.8	26600	22200		
		6.0	90.0	23800	19800	135.0	35700	29700		
		7.5	105.0	27700	23100	168.0	44400	37000		
	600	4.5	85.0	22500	18700	120.7	31900	26600		
		6.0	105.0	27700	23100	157.5	41600	34600		
		7.5	120.0	31700	26400	192.0	50700	42200		
	720	4.5	95.0	25100	20900	134.0	35600	29700		
		6.0	117.0	30900	25700	175.5	46400	38600		
		7.5	129.0	34100	28400	206.4	54500	45400		
	4/13	340	4.5	27.0	7100	5900	98.3	10100	8400	
			6.0	43.0	11400	9500	64.5	17000	14200	
			7.5	56.0	14800	12300	80.6	23700	19700	
		400	4.5	36.0	9500	7900	51.1	13500	11200	
			6.0	52.0	13700	11400	78	20600	17200	
			7.5	67.0	17700	14700	107.2	28300	23600	
480		4.5	46.0	12200	10100	65.3	17300	14400		
		6.0	65.0	17200	14300	97.5	25800	21400		
		7.5	80.0	21100	17600	128.0	33800	28200		
600		4.5	60.0	15900	13200	85.2	22500	18700		
		6.0	80.0	21100	17600	120.0	31700	26400		
		7.5	97.0	25600	21300	155.2	41000	34100		
720		4.5	73.0	19300	16100	103.7	27400	22800		
		6.0	94.0	24800	20700	141.0	37300	31000		
		7.5	108.0	28500	23800	172.8	45700	38000		
6/20		340	4.5	10.0	2800	2200	14.2	3800	3100	
			6.0	24.0	6300	5300	36.0	9500	7900	
			7.5	36.0	9500	7900	57.6	15200	12700	
		400	4.5	17.0	4500	3700	24.1	6400	5300	
			6.0	33.0	8700	7300	49.5	13100	10900	
			7.5	47.0	12400	10300	75.2	19900	16500	
	480	4.5	46.0	6900	5700	98.9	9800	8100		
		6.0	44.0	11600	9700	68.0	17400	14500		
		7.5	60.0	15900	13200	96.0	25400	21100		
	600	4.5	40.0	10800	8800	58.8	15000	12500		
		6.0	61.0	16100	13400	91.5	24200	20100		
		7.5	77.0	20300	16900	123.2	32500	27100		
	720	4.5	52.0	13700	11400	73.8	19500	16200		
		6.0	75.0	19800	16500	112.5	29700	24700		
		7.5	91.0	24000	20000	145.6	38500	32000		
	8/26	340	4.5							
			6.0	6.0	1600	1300	9.0	2400	2000	
			7.5	17.0	4500	3700	27.2	7200	6000	
		400	4.5	3.0	800	700	4.3	1100	900	
			6.0	13.0	3400	2900	19.5	5200	4300	
			7.5	26.0	6900	5700	41.6	1100	9200	
480		4.5	10.0	2600	2200	14.2	3800	3100		
		6.0	24.0	6300	5300	36.0	9500	7900		
		7.5	38.0	10000	8400	60.8	16100	13400		
600		4.5	20.0	5300	4400	28.4	7500	6200		
		6.0	39.0	10300	8600	58.5	15500	12900		
		7.5	56.0	14800	12300	80.6	23700	19700		
720		4.5	31.0	8200	6800	44.0	11600	9700		
		6.0	36.0	9500	7900	57.6	15200	12700		
		7.5	54.0	14300	11900	88.4	22800	19000		
10/33		600	4.5	7.0	1800	1500	11.2	3000	2500	
			6.0	23.0	6100	5100	36.8	9700	8100	
			7.5	39.0	10300	8600	62.4	16500	13700	
		720	4.5	16.0	4200	3500	25.8	6800	5600	
			6.0	36.0	9500	7900	57.6	15200	12700	
			7.5	54.0	14300	11900	88.4	22800	19000	
	12/39	600	4.5	1.0	300	200	1.6	400	400	
			6.0	10.0	2800	2200	16.0	4200	3500	
			7.5	39.0	10300	8600	62.4	16500	13700	
		720	4.5	6.0	1600	1300	9.8	2500	2100	
			6.0	20.0	5300	4400	32.0	8500	7000	
			7.5	37.0	9900	8100	59.2	15600	13000	
		900	4.5	17.0	4500	3700	27.2	7200	6000	
			6.0	37.0	9800	8100	59.2	15600	13000	
			7.5	50.0	13200	1100	80.0	21100	17600	
		14/46	600	4.5						
				6.0	3.0	800	700	4.8	1300	1100
				7.5	8.0	2100	1800	12.8	3400	2800
			720	4.5						
				6.0	7.0	1800	1500	11.2	3000	2500
				7.5	21.0	5500	4600	33.8	8900	7400
900			4.5	5.0	1300	1100	8.0	2100	1800	
			6.0	21.0	5500	4600	33.6	8900	7400	
			7.5	33.0	8700	7300	52.8	13900	11600	

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