The Dankoff Solar SlowPump was the world's first commercially available low power solar pump. In response to those that claimed it was impossible, the Solar SlowPump was developed by Windy Dankoff in 1983, and has thousands of installed units worldwide over its nearly 40 year life.

Produced in a wide range of sizes, the Solar SlowPump is used to draw water from shallow sources and push it as high as 450 vertical feet through miles of pipeline.

Designed for reliability and maintainability, wear parts typically last 5-10 years, with an overall life expectancy of 15-20 years before rebuild.

Construction & Features

• Rotary vane mechanism (positive displacement) made of forged brass, carbon-graphite, and stainless steel

• NSF approved for drinking water

• Handles sea water and dissolved minerals

• Survives most freezes

• Permanent magnet, DC motor

• AC models use a low-surge PM motor that greatly reduces starting surges, inverter, and wire size requirements

• Installation and Service Manual is highly detailed and illustrated

Filtration Requirement

This pump *cannot* tolerate dirt, so water *must* be filtered clear. Failure to use an approved filtration unit will void the warranty of the pump. If water is very dirty, improve the source or consider using one of our dirt-tolerant pump models; SolarForce, SunCentric, or Solaram.

Solar-Direct Applications ("PV-Direct"/non-battery)

• Rated power of the PV array must meet Watts listed in the PV Watts column in the chart below

• Use of the Dankoff DC Controller will increase system performance nearly 30% over the course of one year and is required to start and run in low light conditions

Mechanical Characteristics

1300 Models

• Dimensions: 5 ¾ x 17 3/8 inch (14.61 x 44.14 cm)

• Fittings: ½ inch Female

• Weight: 12 lbs (5.45 kgs)

1400 Models

• Dimensions: 6 ½ x 18 ¾ inch (16.51 x 47.63 cm)

• Fittings: ½ inch Female

• Weight: 25 lbs (11.34 kgs)

2500 Models

• Dimensions: 5 ¾ x 17 3/8 inch (14.61 x 44.14 cm)

• Fittings: ¾ inch Male

• Weight: 13 lbs (5.9 kgs)

2600 Models

• Dimensions: 6 ½ x 18 ¾ inch (16.51 x 47.63 cm)

• Fittings: ¾ inch Male

• Weight: 29 lbs (13.16 kgs)

Warranty
1 year against defects in materials and workmanship

Reading the Chart
Use the chart to determine a four-digit model number. Make note of the voltage indicated.

Total Lift = vertical distance from surface of the water source to the pipe outlet or top of storage tank, plus pipeline friction loss
GPM = U.S. Gallons Per Minute
LPM = Liters Per Minute

Total Lift		Model #1322 PV			Model #1310 PV			Model #1308 PV			Model #1304 PV			Model #1303 PV			Model #2505 PV			Model #2507 PV		
Feet	Meters	GPM	LPM	Watts	GPM	LPM	Watts	GPM	LPM	Watts	GPM	LPM	Watts	GPM	LPM	Watts	GPM	LPM	Watts	GPM	LPM	Watts
0-20	0-6	0.51	1.93	40	0.92	3.48	40	1.25	4.73	40	1.75	6.62	45	2.5	9.46	65	3.25	12.3	70	4	15.14	80
40	12	0.51	1.93	45	0.92	3.48	50	1.25	4.73	65	1.75	6.62	65	2.5	9.46	80	3.23	12.23	75	3.95	14.95	100
60	18	0.51	1.93	45	0.89	3.37	60	1.2	4.54	70	1.68	6.36	80	2.44	9.24	90	3.15	11.92	110	3.9	14.76	130
80	24	0.49	1.85	50	0.88	3.33	65	1.2	4.54	80	1.64	6.21	90	2.36	8.93	110	3.1	11.73	135	3.9	14.76	150
100	30	0.49	1.85	65	0.88	3.33	70	1.2	4.54	85	1.64	6.21	100	2.33	8.82	130	3.08	11.66	155	3.85	14.57	180
120	36	0.48	1.82	65	0.88	3.33	75	1.2	4.54	90	1.62	6.13	110	2.33	8.82	140	3.02	11.43	180	3.8	14.38	210
140	42	0.47	1.78	70	0.88	3.33	80	1.2	4.54	95	1.6	6.06	125	2.27	8.59	160	2.92	11.05	210	3.65	13.82	245
160	48	0.47	1.78	80	0.87	3.3	95	1.2	4.54	110	1.6	6.06	140	2.21	8.36	180	2.85	10.79	235			
180	54	0.47	1.78	85	0.86	3.26	100	1.18	4.47	120	1.57	5.94	150	2.11	7.99	190	2.75	11.41	255			
200	60	0.45	1.7	100	0.85	3.22	110	1.16	4.39	130	1.56	5.91	165	2.03	7.68	220						
240	72	0.44	1.67	120	0.83	3.14	130	1.14	4.31	150	1.54	5.83	190	1.96	7.42	235						
280	84	0.41	1.55	130	0.81	3.07	150	1.12	4.24	170	1.51	5.72	220									
320	96	0.41	1.55	150	0.79	3	170	1.1	4.16	195	1.48	5.6	245									
360	108	0.41	1.55	170	0.76	2.88	195	1.05	3.97	220												
400	120	0.4	1.51	190	0.73	2.76	220	1	3.79	250												
440	132	0.39	1.48	210	0.7	2.65	250															
480	146	0.25	0.95	260																		
520	158	0.25	0.95	310																		
560	170	0.2	0.76	340																		

Motor
1/5 Horsepower

PV-Direct Voltage
12 VDC, 24VDC, 48 VDC

Inverted Voltage (AC)
115 VAC

Total Lift		Model #1408 PV			Model #1404 PV			Model #1403 PV			Model #2605 PV			Model #2607 PV		
Feet	Meters	GPM	LPM	Watts	GPM	LPM	Watts	GPM	LPM	Watts	GPM	LPM	Watts	GPM	LPM	Watts
0-20	0-6	1.92	7.27	110				3.64	13.78	130				6.2	23.47	185
40	12	1.9	7.19	120				3.6	13.63	150				6.1	23.09	240
60	18	1.88	7.12	130				3.61	13.66	170				6.09	23.05	250
80	24	1.88	7.12	140				3.5	13.25	200				6.04	22.86	290
100	30	1.85	7	150				3.5	13.25	220				6.04	22.86	330
120	36	1.83	6.93	160				3.43	12.98	235				6	22.71	355
140	42	1.82	6.89	180				3.43	12.98	255				6	22.71	390
160	48	1.82	6.89	185				3.43	12.98	280				5.93	22.45	430
180	54	1.81	6.85	200				3.4	12.87	300	3.35	12.68	350	5.83	22.07	470
200	60	1.81	6.85	210				3.35	12.68	330	3.33	12.61	370	5.8	21.95	500
240	72	1.77	6.7	235				3.38	12.79	360	3.3	12.49	415	5.75	21.76	585
280	84	1.79	6.78	260				3.3	12.49	405	3.25	12.3	465	5.59	21.16	675
320	96	1.72	6.51	290	1.66	6.28	320	3.3	12.49	450	3.2	12.11	515			
360	108	1.75	6.62	310	1.66	6.28	350	3.2	12.11	520	3.16	11.96	565			
400	120	1.69	6.4	330	1.64	6.21	390	3.2	12.11	545						
440	132	1.69	6.4	355	1.62	6.13	430	3.1	11.73	610						
480	146	1.7	6.43	380												
520	158	1.61	6.09	400												
560	170	1.67	6.32	435												

Motor
1/2 Horsepower

PV-Direct Voltage
24 VDC, 48VDC

Inverted Voltage (AC)
115VAC

Performance at 15 or 30V (PV-Direct Voltage)
For battery, subtract 20% from Flow & Watts
24V pump may be run at 12V to yield 1/2 flow at 1/2 watts
Actual performance my vary ± 10%

Dependable water solutions since 1983

Subject to technical changes

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