

Dankoff Solar SlowPump™ Surface Pump



The Dankoff Solar SlowPump was the world's first commercially available low power solar pump. It was developed by Windy Dankoff in 1983, in response to those who said "that's impossible". Thousands of Solar SlowPumps have been installed worldwide by ranchers, homeowners, missionaries, health workers, and government agencies. Some of oldest Solar SlowPumps are still in use today.

The Solar SlowPump is used to draw water from shallow wells, springs, cisterns, tanks, ponds, rivers, and streams, and push it as high as 450 vertical feet and through miles of pipeline.

Solar SlowPump is less expensive than most submersible DC pumps, and made in a much wider range of sizes. Wearing parts typically last 5 to 10 years. Overall life expectancy is 15 to 20 years.

Suction Capacity

20 vertical feet (6 m) at sea level; subtract 1 ft. for every 1000 ft. altitude (1 m for every 1000 m). Pump should be installed as close to water source as possible to reduce suction lift.

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. Water MUST be filtered clear. Failure to use a Dankoff Solar Pump filter unit, or use of a filtration unit not approved by Dankoff Solar Pumps, 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, and 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
- DSP 200 Controller: Will increase system performance approximately 30% over the course of one year. 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 \(^3\)4 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

Total Lift		Model #1322		Model#1310		Model#1308			Model #1304			Model #1303			Model #2505		Model #2507					
				PV			PV			PV			PV			PV			PV			PV
Feet	Meters	GPM L	PM	Watts	GPM	LPM	Watts	GPM	LPM	Watts	GPM	LPM	Watts	GPM	LPM	Watts	GPM	LPM	Watts	GPM	LPM	Watt
0-20	0-6		.93	40	0.92	3.48	40	1.25	4.73	40		6.62	45	2.5	9.46	65	- Transfer	12.3	70	4	15.14	80
40	12		.93	45	0.92	3.48	50	1.25	4.73	65	1.75	6.62	65	2.5	9.46	80	_	12.23	75	3.95	14.95	100
60	18		.93	45	0.89	3.37	60	1.2	4.54	70	1.68	6.36	80	2.44	9.24	90		11.92	110	3.9	14.76	130
80	24		.85	50	0.88	3.33	65	1.2	4.54	80	1.64	6.21	90	2.36	8.93	110		11.73	135	3.9	14.76	150
100	30		.85	65	0.88	3.33	70	1.2	4.54	85	1.64	6.21	100	2.33	8.82	130		11.66	155	3.85	14.57	180
120	36		.82	65	0.88	3.33	75	1.2	4.54	90	1.62	6.13	110	2.33	8.82	140	_	11.43	180	3.8	14.38	210
140	42		.78	70	0.88	3.33	80	1.2	4.54	95	1.6	6.06	125	2.27	8.59	160	TO LOCATION	11.05	210	3.65	13.82	245
160	48		.78	80	0.87	3.3	95	1.2	4.54	110	1.6	6.06	140	2.21	8.36	180	_	10.79	235			
180	54		.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		1.7	100	0.85	3.22	110	1.16	4.39	130	1.56	5.91	165	2.03	7.68	220					Motor	
240	72		.67	120	0.83	3.14	130	1.14	100000000000000000000000000000000000000	150	1.54	5.83	190	1.96	7.42	235	-			1/5	Horsep	ower
280	84		.55	130	0.81	3.07	150	1.12	4.24	170	1.51	5.72	220									
320	96		.55	150	0.79	3	170	1.1	4.16	195	1.48	5.6	245								Direct V	
360	108		.55	170	0.76	2.88	195	1.05	3.97	220	-01									12 VDC	C, 24VDC	., 48 V
400	120		.51	190	0.73	2.76	220		3.79	250	70											
440	132		.48	210	0.7	2.65	250													Invert	ed Volta	
480	146).95	260																	115 VA	C
560	158 170 al Lift),95),76 el#l	310 340 408	Мо	del#	404	Mo	del#I	403	Mo	del#2	2605	Mo	del#2							
	170 al Lift	0.2 (Mod).76 el#I	340 408 PV			PV			PV			PV			PV						
560 Tota Feet	170 al Lift Meters	0.2 (Mod GPM L).76 el#l .PM	340 408 PV Watts				GPM	LPM	PV Watt				GPM	LPM	PV Watts						
560 Tot : Feet 0-20	170 al Lift Meters 0-6	0.2 (Mod GPM L 1.92 7	0.76 el#l . PM 17.27	340 408 PV Watts			PV	GPM 3.64	LPM 13.78	PV Watts			PV	GPM 6.2	LPM 23.47	PV Watts 185						
560 Tot : Feet 0-20 40	170 al Lift Meters 0-6 12	0.2 (Mod GPM L 1.92 7).76 el#l . PM \ 7.27 7.19	340 408 PV Watts 110 120			PV	GPM 3.64 3.6	LPM 13.78 13.63	PV Watts 130 150			PV	GPM 6.2 6.1	LPM 23.47 23.09	PV Watts 185 240	<u>.</u>				The same of the sa	
Feet 0-20 40 60	170 al Lift Meters 0-6 12 18	0.2 (Mod GPM L 1.92 7 1.9 7	0.76 el#I .PM \ 7.27 7.19	340 408 PV Watts 110 120 130			PV	GPM 3.64 3.6 3.61	LPM 13.78 13.63 13.66	PV Watts 130 150 170			PV	GPM 6.2 6.1 6.09	LPM 23.47 23.09 23.05	PV Watts 185 240 250					Motor	
Tota Feet 0-20 40 60 80	170 al Lift Meters 0-6 12 18 24	0.2 (Mod GPM L 1.92 7 1.98 7 1.88 7	0.76 el#I .PM \ 7.27 7.19 7.12	340 408 PV Watts 110 120 130 140			PV	GPM 3.64 3.6 3.61 3.5	LPM 13.78 13.63 13.66 13.25	PV Watts 130 150 170 200			PV	GPM 6.2 6.1 6.09 6.04	LPM 23.47 23.09 23.05 22.86	PV Watts 185 240 250 290				1/2	Motor ? Horsep	
Feet 0-20 40 60 80 100	170 al Lift Meters 0-6 12 18 24 30	0.2 (Mod GPM L 1.92 7 1.88 7 1.88 7 1.85	0.76 el#I .PM 17.27 7.19 7.12 7.12	340 408 PV Watts 110 120 130 140 150			PV	GPM 3.64 3.6 3.61 3.5 3.5	LPM 13.78 13.63 13.66 13.25 13.25	PV Watts 130 150 170 200 220			PV	GPM 6.2 6.1 6.09 6.04 6.04	LPM 23.47 23.09 23.05 22.86 22.86	PV Watts 185 240 250 290 330					2 Horsep	ower
Feet 0-20 40 60 80 100 120	170 al Lift Meters 0-6 12 18 24 30 36	0.2 (Mod GPM L 1.92 7 1.9 7 1.88 7 1.88 7 1.85 1.83 6	0.76 el#I 7.27 7.19 7.12 7.12 7.33	340 408 PV Watts 110 120 130 140 150 160			PV	GPM 3.64 3.6 3.61 3.5 3.5 3.43	LPM 13.78 13.63 13.66 13.25 13.25 12.98	PV Watts 130 150 170 200 220 235			PV	6.2 6.1 6.09 6.04 6.04 6	LPM 23.47 23.09 23.05 22.86 22.86 22.71	PV Watts 185 240 250 290 330 355				PV-I	Horsepolicet V	ower oltage
Feet 0-20 40 60 80 100 120 140	170 al Lift Meters 0-6 12 18 24 30 36 42	0.2 (Mod GPM L 1.92 7 1.9 7 1.88 7 1.88 7 1.85 1 1.85 (1.82 6		340 408 PV Watts 110 120 130 140 150 160 180			PV	GPM 3.64 3.6 3.61 3.5 3.5 3.43 3.43	LPM 13.78 13.63 13.66 13.25 13.25 12.98 12.98	PV Watts 130 150 170 200 220 235 255			PV	6.2 6.1 6.09 6.04 6.04 6	LPM 23.47 23.09 23.05 22.86 22.86 22.71 22.71	PV Watts 185 240 250 290 330 355 390				PV-I	2 Horsep	ower <mark>'oltag</mark> e
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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 \pm 10%

Performance at 1.5 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 \pm 10%

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| 120 | 121 | 124 | 251 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120
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Subject to technical changes
For more information, please visit or call:

www.dankoffsolarpumps.com
1(505) 471-3469