

## 4" Solar Pump

Solar water pump also said Solar photovoltaic pumping system, it becomes more and more in recent years has been identified as sunshine rich region in the world today, especially the lack of electricity in remote areas without electricity the most attractive means of water supply, using readily and limitles reserve of solar energy to achieve high efficiency and high reliability of water supply. Pump automatic to sunrise, sunset and jehiel, and no personnel supervision, maintenance workload can be minimized, is the ideal set of economy, reliability, and environmental benefits for the integration of green energy high technology product.

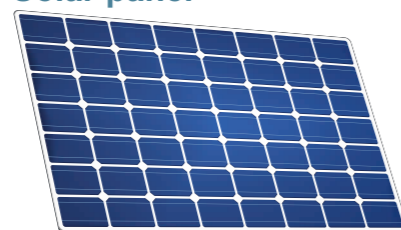
### Applications

For water supply from wells or reservoirs  
For domestic use, for civil and industrial applications  
For garden use and irrigation

### Operating conditions

Maximum fluid temperature up to +35°C  
Maximum sand content : 0.25%  
Maximum immersion : 50m  
Minimum well diameter : 4"

### Solar panel



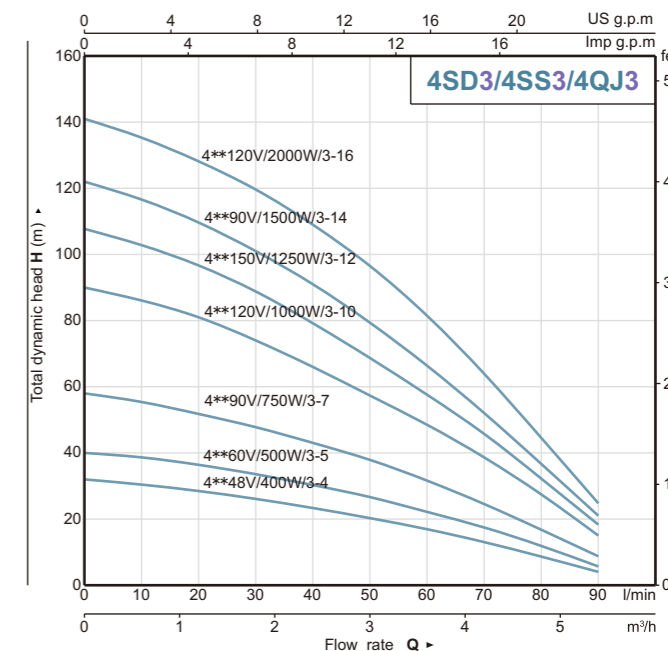
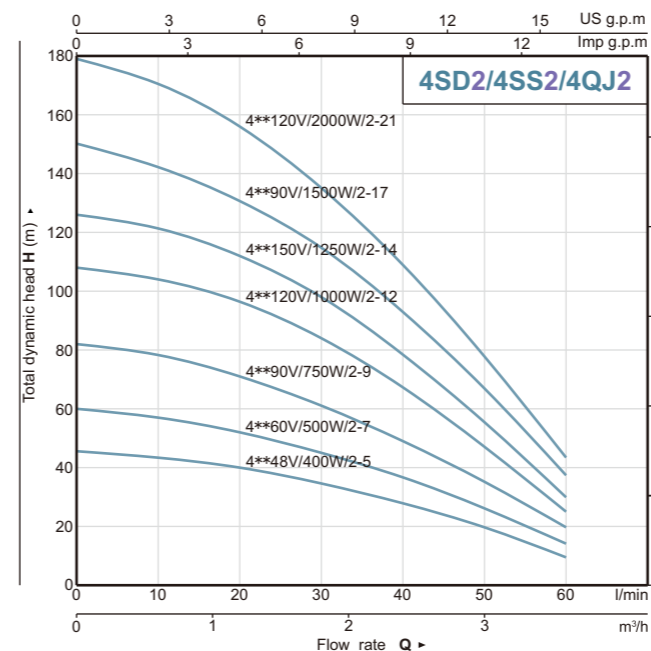
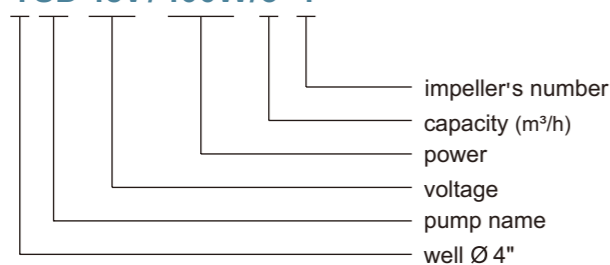
### Motor and Pump

A dc motor  
Pumps are designed by casing stressed  
NEMA dimension standards

### Warranty: 1 year

(according to our general sales conditions)

### 4 SD 48V/400W/3-4



### PERFORMANCE DATA

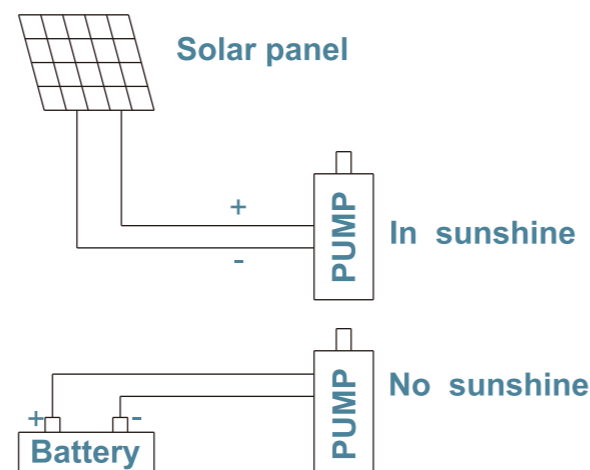
MODEL	VOLTAGE	P <sub>1</sub> W	DELIVERY							
			Q m³/h l/min	0	0.6	1.2	1.8	2.4	3.0	3.6
4**48V/400W/2-5	48V	400	H(m)	44	41	38	34	27	18	15
4**60V/500W/2-7	60V	500		61	58	53	47	38	25	20
4**90V/750W/2-9	90V	750		82	76	71	60	49	35	22
4**120V/1000W/2-12	120V	1000		108	104	98	84	66	48	25
4**150V/1250W/2-14	150V	1250		126	121	114	98	77	56	29
4**90V/1500W/2-17	90V	1500		150	142	133	109	90	65	37
4**120V/2000W/2-21	120V	2000		179	172	156	134	105	76	41

### PERFORMANCE DATA

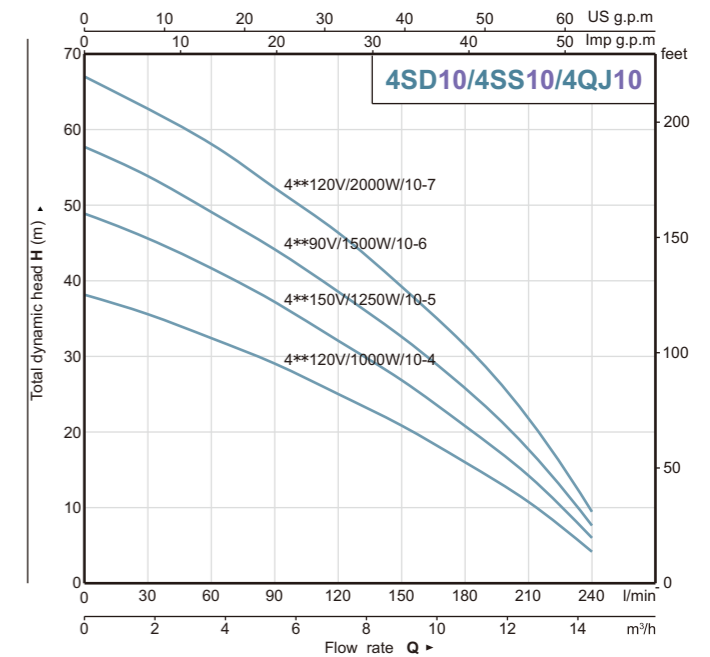
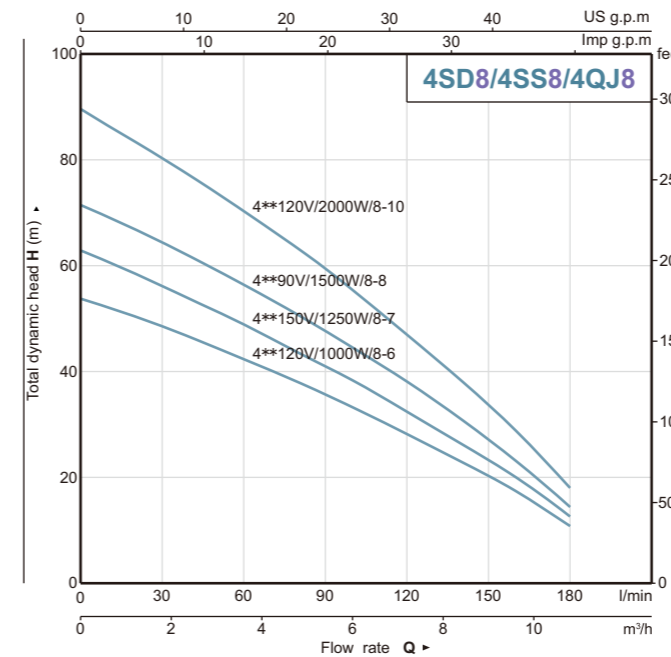
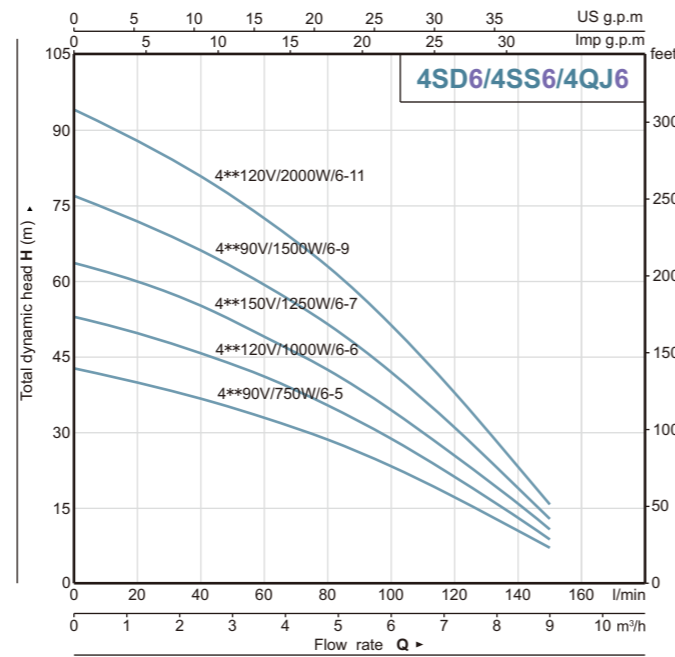
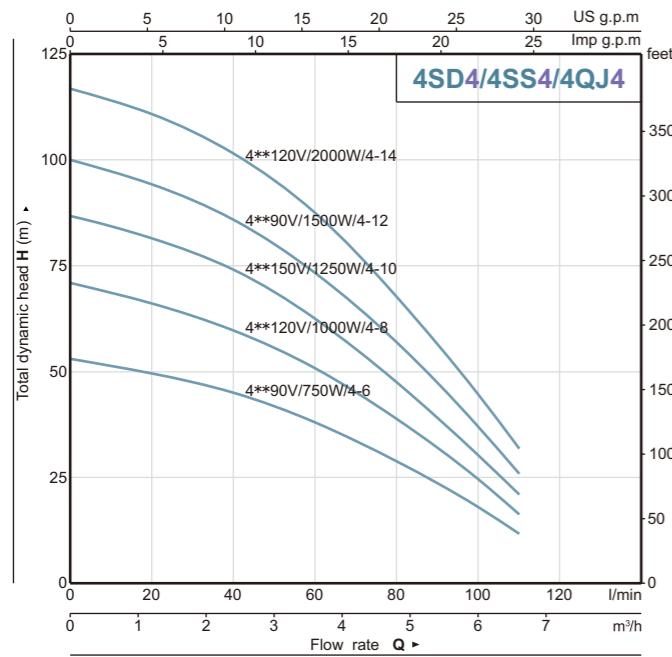
MODEL	VOLTAGE	P <sub>1</sub> W	DELIVERY										
			Q m³/h l/min	0	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8	5.4
4**48V/400W/3-4	48V	400	H(m)	32	30	28	26	23	20	16	13	9	6
4**60V/500W/3-5	60V	500		40	38	35	33	29	25	20	16	11	7
4**90V/750W/3-7	90V	750		58	54	51	47	42	37	30	24	17	11
4**120V/1000W/3-10	120V	1000		90	83	81	74	66	56	48	39	28	16
4**150V/1250W/3-12	150V	1250		108	100	97	89	79	67	58	47	34	18
4**90V/1500W/3-14	90V	1500		122	113	109	101	91	78	66	50	35	21
4**120V/2000W/3-16	120V	2000		141	133	126	120	109	97	82	62	43	25

• 4\*\* in the above table can be replaced by any of 4SD, 4SS, 4QJ  
• The above performance is solar panel parameters in STC: 1000W/m² irradiance, 25°C cell temperature, AM 1.5g spectrum according to EN 60904-3.

### Installation Diagram



Components	Material
Pump external casing	①AISI 304 SS ②AISI 201 SS
Delivery casing	①Cast-Cu ASTM C8850 ②AISI 304 SS ③Cast-iron
Suction lantern	①Cast-Cu ASTM C8850 ②AISI 304 SS ③Cast-iron
Diffuser	①Plastic.PC ②Plastic.ABS
Impeller	Plastic.POM
Shaft	①AISI 304 SS ②AISI 410S
Shaft coupling	AISI 304 SS
Wear ring	AISI 304 SS
Motor external casing	Cast-iron
Top chock	Cast-iron
Bottom support	Cast-iron
Shaft	AISI 304 SS-ASTM 5140
Magnetic shoe	Ferrite



### PERFORMANCE DATA

MODEL	VOLTAGE	P <sub>1</sub> W	DELIVERY							
			Q m³/h l/min	0	1.2	2.4	3.6	4.8	6.0	6.6
4**90V/750W/4-6	90V	750	H(m)	53	49	45	38	28	18	13
4**120V/1000W/4-8	120V	1000		71	66	60	51	38	25	16
4**150V/1250W/4-10	150V	1250		88	83	75	62	47	28	19
4**90V/1500W/4-12	90V	1500		99	92	86	68	52	31	22
4**120V/2000W/4-14	120V	2000		117	108	100	84	64	39	27

### PERFORMANCE DATA

MODEL	VOLTAGE	P <sub>1</sub> W	DELIVERY							
			Q m³/h l/min	0	1.8	3.6	5.4	7.2	9.0	10.8
4**120V/1000W/8-6	120V	1000	H(m)	52	47	38	33	26	20	11
4**150V/1250W/8-7	150V	1250		63	55	45	39	31	23	13
4**90V/1500W/8-8	90V	1500		72	62	51	44	36	26	14
4**120V/2000W/8-10	120V	2000		88	78	64	55	45	33	18

### PERFORMANCE DATA

MODEL	VOLTAGE	P <sub>1</sub> W	DELIVERY										
			Q m³/h l/min	0	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.0	
4**90V/750W/6-5	90V	750	H(m)	44	41	37	34	29	24	18	12	7	
4**120V/1000W/6-6	120V	1000		53	49	45	41	35	29	22	14	9	
4**150V/1250W/6-7	150V	1250		62	57	53	48	41	33	25	16	11	
4**90V/1500W/6-9	90V	1500		79	73	67	62	53	43	33	21	13	
4**120V/2000W/6-11	120V	2000		97	88	81	74	64	53	38	23	16	

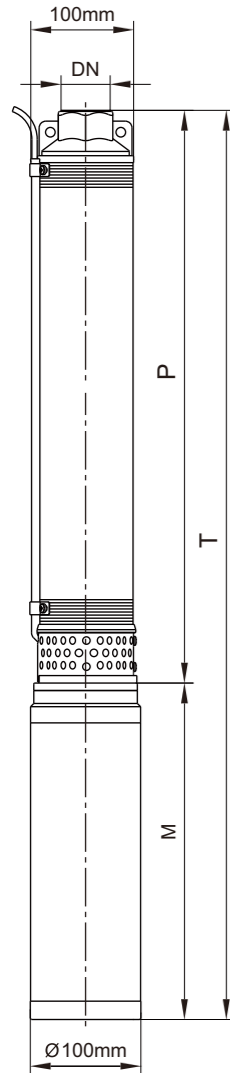
### PERFORMANCE DATA

MODEL	VOLTAGE	P <sub>1</sub> W	DELIVERY											
			Q m³/h l/min	0	1.8	3.6	5.4	7.2	9.0	10.8	12.6	14.4		
4**120V/1000W/10-4	120V	1000	H(m)	38	35	31	27	24	21	15	8	4		
4**150V/1250W/10-5	150V	1250		47	43	36	32	28	23	17	10	5		
4**90V/1500W/10-6	90V	1500		56	51	44	39	34	29	22	14	6		
4**120V/2000W/10-7	120V	2000		65	60	51	46	40	34	26	16	7		

• 4\*\* in the above table can be replaced by any of 4SD,4SS,4QJ  
 • The above performance is solar panel parameters in STC:1000W/m<sup>2</sup> irradiance,25°C cell temperature, AM 1.5g spectrum according to EN 60904-3.

• 4\*\* in the above table can be replaced by any of 4SD,4SS,4QJ  
 • The above performance is solar panel parameters in STC:1000W/m<sup>2</sup> irradiance,25°C cell temperature, AM 1.5g spectrum according to EN 60904-3.

## DIMENSION AND WEIGHT



MODEL	CURRENT	DN	DIMENSION(mm)			WEIGHT(kg)		
			P	M	T	P	M	T
4**48V/400W/2-5	8.0A	1½"/1½"	347	350	697	2.8	7.5	10.3
4**60V/500W/2-7	8.0A	1½"/1½"	396	350	746	3.3	7.5	10.8
4**90V/750W/2-9	8.0A	1½"/1½"	444	350	794	3.8	7.5	11.3
4**120V/1000W/2-12	8.0A	1½"/1½"	517	350	867	4.6	7.5	12.1
4**150V/1250W/2-14	8.0A	1½"/1½"	566	350	916	5.1	7.5	12.6
4**90V/1500W/2-17	14.5A	1½"/1½"	640	350	990	5.9	7.5	13.4
4**120V/2000W/2-21	14.5A	1½"/1½"	769	350	1119	6.7	7.5	14.2
4**48V/400W/3-4	8.0A	1½"/1½"	330	350	680	2.6	7.5	10.1
4**60V/500W/3-5	8.0A	1½"/1½"	357	350	707	2.8	7.5	10.3
4**90V/750W/3-7	8.0A	1½"/1½"	410	350	760	3.4	7.5	10.9
4**120V/1000W/3-10	8.0A	1½"/1½"	489	350	839	4.2	7.5	11.7
4**150V/1250W/3-12	8.0A	1½"/1½"	541	350	891	4.8	7.5	12.3
4**90V/1500W/3-14	14.5A	1½"/1½"	594	350	944	5.4	7.5	12.9
4**120V/2000W/3-16	14.5A	1½"/1½"	647	350	997	6.0	7.5	13.5

MODEL	CURRENT	DN	DIMENSION(mm)			WEIGHT(kg)		
			P	M	T	P	M	T
4**90V/750W/4-6	8.0A	1½"/1½"	400	350	750	3.1	7.5	10.6
4**120V/1000W/4-8	8.0A	1½"/1½"	458	350	808	3.7	7.5	11.2
4**150V/1250W/4-10	8.0A	1½"/1½"	517	350	867	4.3	7.5	11.8
4**90V/1500W/4-12	14.5A	1½"/1½"	575	350	925	4.9	7.5	12.4
4**120V/2000W/4-14	14.5A	1½"/1½"	633	350	983	5.5	7.5	13.0
4**90V/750W/6-5	8.0A	1½"/2"	397	350	747	3.1	7.5	10.6
4**120V/1000W/6-6	8.0A	1½"/2"	432	350	782	3.4	7.5	10.9
4**150V/1250W/6-7	8.0A	1½"/2"	470	350	820	3.8	7.5	11.3
4**90V/1500W/6-9	14.5A	1½"/2"	535	350	885	4.2	7.5	11.7
4**120V/2000W/6-11	14.5A	1½"/2"	604	350	954	4.9	7.5	12.4

MODEL	CURRENT	DN	DIMENSION(mm)			WEIGHT(kg)		
			P	M	T	P	M	T
4**120V/1000W/8-6	8.0A	1½"/2"	444	350	794	3.4	7.5	10.9
4**150V/1250W/8-7	8.0A	1½"/2"	480	350	830	3.8	7.5	11.3
4**90V/1500W/8-8	14.5A	1½"/2"	517	350	867	4.2	7.5	11.9
4**120V/2000W/8-10	14.5A	1½"/2"	589	350	939	4.9	7.5	12.4
4**120V/1000W/10-4	8.0A	2"	387	350	737	2.8	7.5	10.3
4**150V/1250W/10-5	8.0A	2"	426	350	776	3.2	7.5	10.7
4**90V/1500W/10-6	14.5A	2"	465	350	815	3.6	7.5	11.1
4**120V/2000W/10-7	14.5A	2"	505	350	855	4.0	7.5	11.5

• 4\*\* in the above table can be replaced by any of 4SD, 4SS, 4QJ

## SOLAR PANEL CONNECTION

