



SOLAR PUMPS

**NORWIK**<sup>®</sup>

## 1. DC SOLAR PUMP

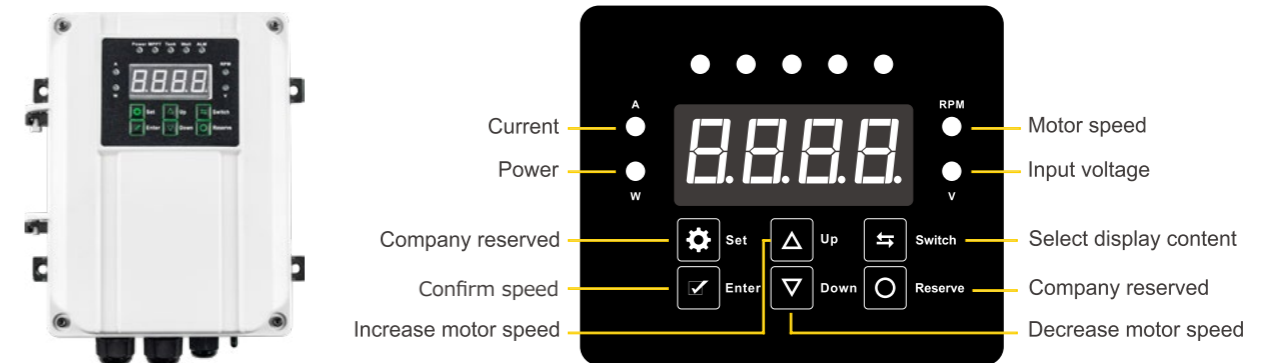
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## 1. DC SOLAR PUMP

- ▷ Permanent magnet DC brushless motor, efficiency improved by 20~30%.
- ▷ Longer use life than normal electrical AC pump motor.
- ▷ High efficiency intelligent MPPT controller makes pump start and stop working automatically.
- ▷ Overload protection, over current protection, underload protection, under voltage protection, reverse connect protection, thermal protection, well shortage water protection, soft start.
- ▷ Controller LED screen displays voltage, current, power, speed RPM, adjusting speed, error code.
- ▷ Controller waterproofing grade IP54.
- ▷ Ambient temperature: -15~70 °C.



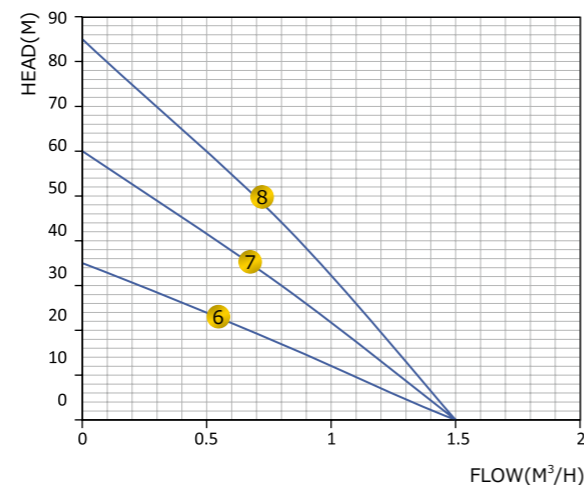
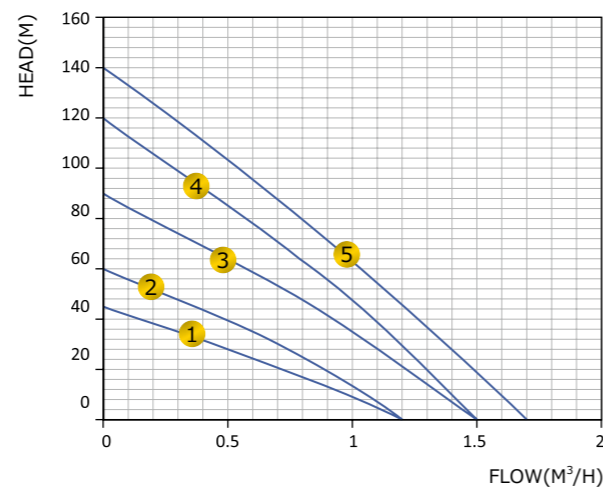
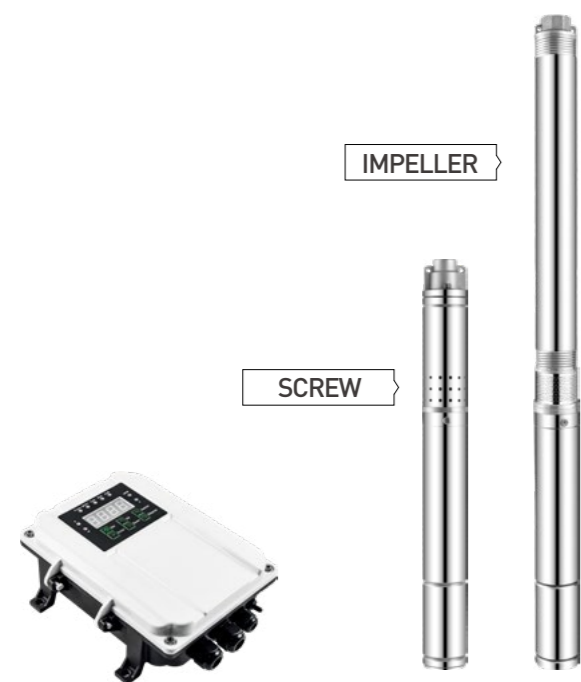
### SOLAR PANELS CONNECTION FOR DC SOLAR PUMP

DC Pump	DC Input Voltage VOC (V)	Solar Panels Connection	
12V 200W	11~55		12V Battery Solar panel: 150Wp*2PCS
24V 180/250/300W	11~55		250Wp*1PC 330Wp*1PC
48V 400W	45~100		250Wp*2PCS 300Wp*2PCS
72V 600W	60~150		250Wp*3PCS 300Wp*3PCS
96V 750W	60~200		250Wp*4PCS 300Wp*3PCS
144V 1100W	90~340		250Wp*6PCS 300Wp*5PCS
72V 1100W	60~150		250Wp*6PCS 300Wp*6PCS
192V 1500W	90~430		250Wp*8PCS 300Wp*7PCS
96V 1500W	60~200		250Wp*8PCS 300Wp*8PCS
280V 2200W	100~490		250Wp*12PCS 300Wp*10PCS
385V 3000W	280~780		250Wp*16PCS 300Wp*13PCS

## 2" DC SCREW/IMPELLER SOLAR PUMP

### MATERIAL OF PUMP

- ▷ Outlet/connection fitting: brass/stainless steel
- ▷ Cylinder: iron
- ▷ Pump body: 201 stainless steel
- ▷ Pump cable: 2M
- ▷ Oil cooling
- ▷ MPPT function controller
- ▷ 1 year warranty

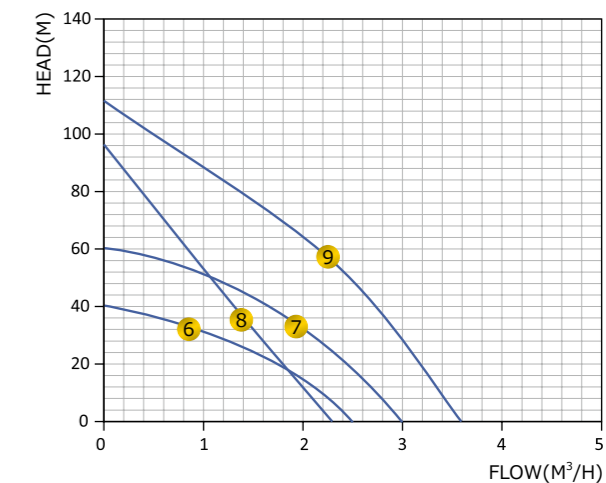
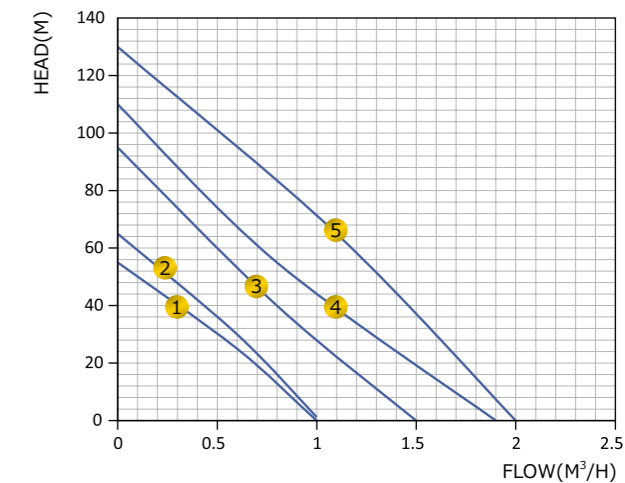


ITEM NO.	DC VOLTAGE (V)	BEST INPUT VOLTAGE VOC (V)	POWER (W)	MAX FLOW (M³/H)	MAX HEAD (M)	OUTLET (INCH)
1	24	11~55	180	1.2	45	0.75"
2	24	11~55	250	1.2	60	0.75"
3	48	45~100	400	1.5	90	0.75"
4	72	60~150	600	1.5	120	0.75"
5	96	60~200	750	1.7	140	0.75"
6	24	11~55	250	1.5	35	0.75"
7	48	45~100	400	1.5	60	0.75"
8	72	60~150	600	1.5	85	0.75"

## 3" 4" DC SS SCREW SOLAR PUMP

### MATERIAL OF PUMP

- ▷ Outlet/connection fitting: 201 stainless steel
- ▷ Cylinder: iron
- ▷ Pump body: 201 stainless steel
- ▷ Screw: steel + rubber
- ▷ Pump cable: 2M
- ▷ Oil cooling
- ▷ MPPT function controller
- ▷ 1 year warranty

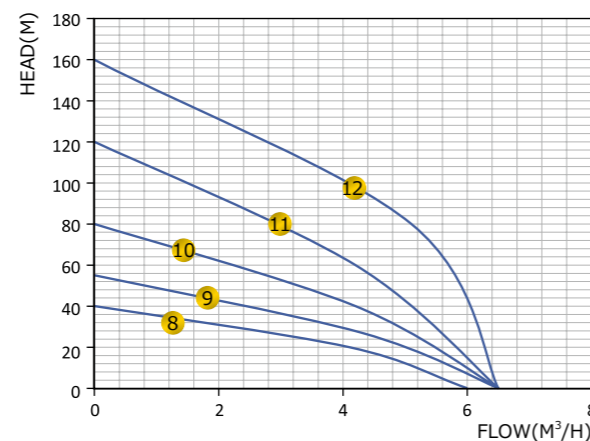
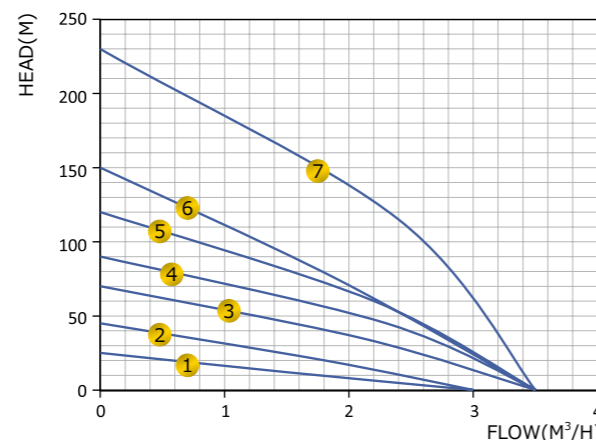


ITEM NO.	DC VOLTAGE (V)	BEST INPUT VOLTAGE VOC (V)	POWER (W)	MAX FLOW (M³/H)	MAX HEAD (M)	OUTLET (INCH)
1	24	11~55	180	1.0	55	0.75"
2	24	11~55	250	1.2	65	0.75"
3	48	45~100	400	1.5	95	0.75"
4	72	60~150	600	1.9	110	0.75"
5	96	60~200	750	2.0	130	0.75"
6	24	11~55	250	2.5	40	1"
7	48	45~100	400	3.0	60	1"
8	72	60~150	600	2.3	95	1"
9	96	60~200	750	3.6	110	1"

## 3" DC PLASTIC IMPELLER SOLAR PUMP

### MATERIAL OF PUMP

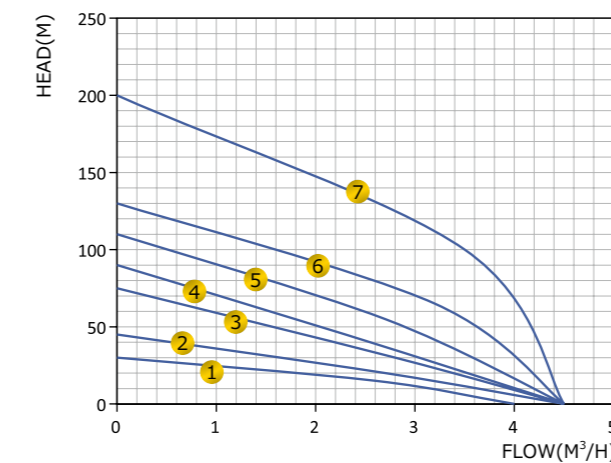
- ▷ Outlet/connection fitting: brass/stainless steel
- ▷ Cylinder: iron
- ▷ Pump body: 201 stainless steel
- ▷ Pump cable: 2M
- ▷ Oil cooling
- ▷ MPPT function controller
- ▷ 1 year warranty



## 3" DC SS IMPELLER SOLAR PUMP

### MATERIAL OF PUMP

- ▷ Outlet/connection fitting: 304 stainless steel
- ▷ Cylinder: iron
- ▷ Pump body: stainless steel
- ▷ Impeller: 304 stainless steel
- ▷ Pump cable: 2M
- ▷ Oil cooling
- ▷ MPPT function controller
- ▷ 1 year warranty



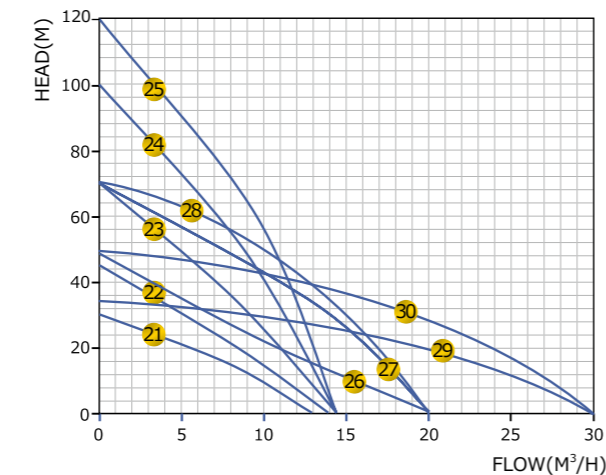
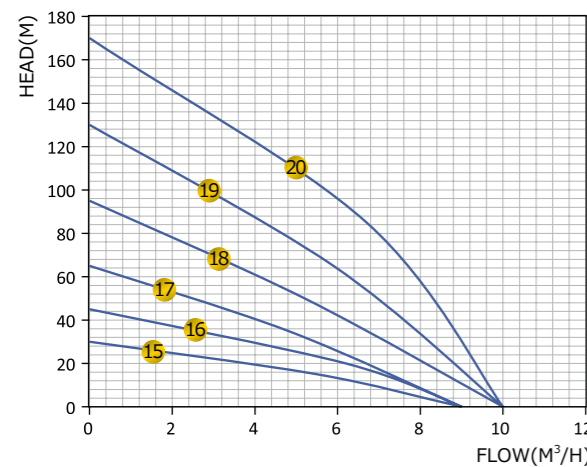
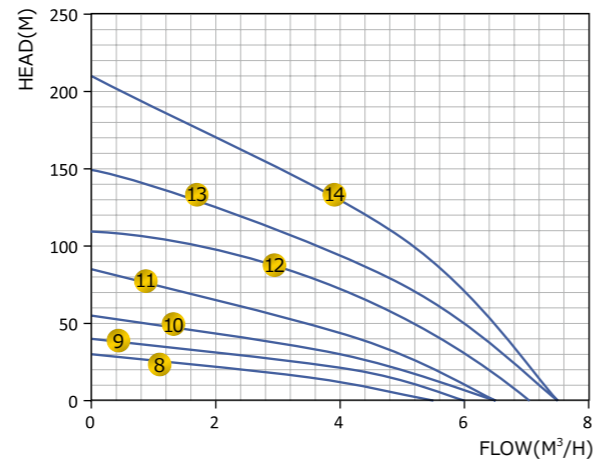
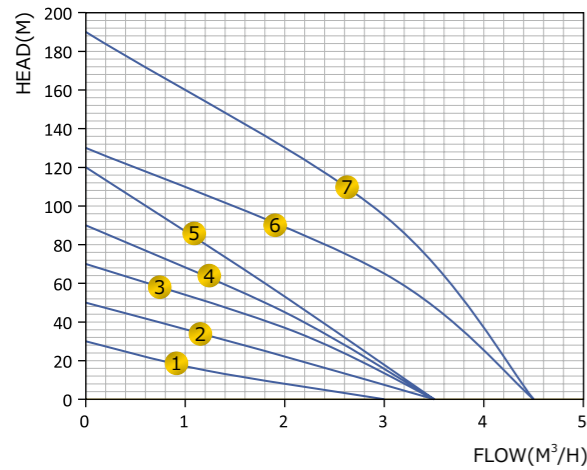
ITEM NO.	DC VOLTAGE (V)	BEST INPUT VOLTAGE VOC (V)	POWER (W)	MAX FLOW (M³/H)	MAX HEAD (M)	OUTLET (INCH)
1	24	11~55	300	3.0	30	1"
2	48	45~100	400	3.0	45	1"
3	72	60~150	600	3.5	70	1"
4	96	60~200	750	3.5	90	1"
5	144	90~340	1100	3.5	120	1"
6	192	90~430	1500	3.5	150	1"
7	280	100~490	2200	3.5	230	1"
8	72	60~150	600	6.0	40	1"
9	96	60~200	750	6.5	55	1"
10	144	90~340	1100	6.5	80	1"
11	192	90~430	1500	6.5	120	1"
12	280	100~490	2200	6.5	160	1"

ITEM NO.	DC VOLTAGE (V)	BEST INPUT VOLTAGE VOC (V)	POWER (W)	MAX FLOW (M³/H)	MAX HEAD (M)	OUTLET (INCH)
1	24	11~55	300	4.0	30	1.25"
2	48	45~100	400	4.5	45	1.25"
3	72	60~150	600	4.5	75	1.25"
4	96	60~200	750	4.5	90	1.25"
5	144	90~340	1100	4.5	110	1.25"
6	192	90~430	1500	4.5	130	1.25"
7	280	100~490	2200	4.5	200	1.25"

## 4" DC PLASTIC IMPELLER SOLAR PUMP

### MATERIAL OF PUMP

- ▷ Outlet/connection fitting:stainless steel
- ▷ Cylinder:iron
- ▷ Pump body:stainless steel
- ▷ Impeller:plastic impeller
- ▷ Pump cable:2M
- ▷ Oil cooling
- ▷ MPPT function controller
- ▷ 1 year warranty

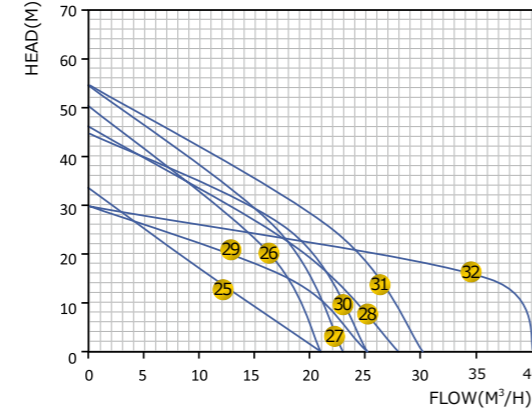
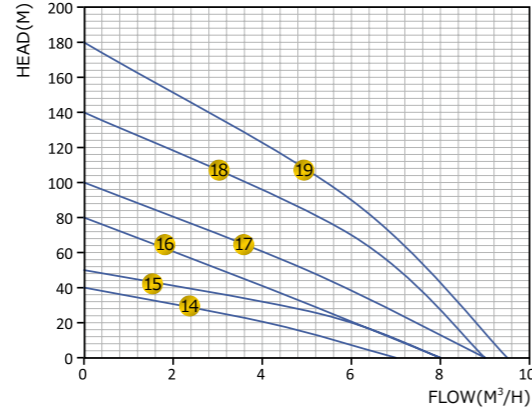
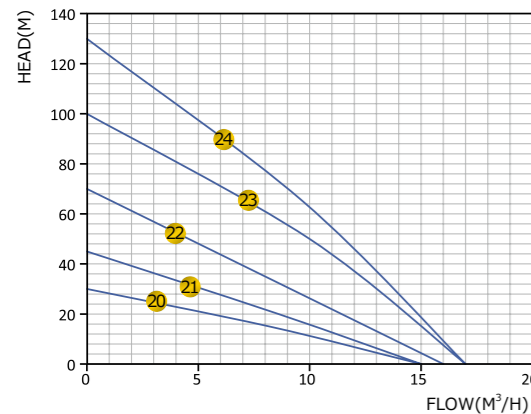
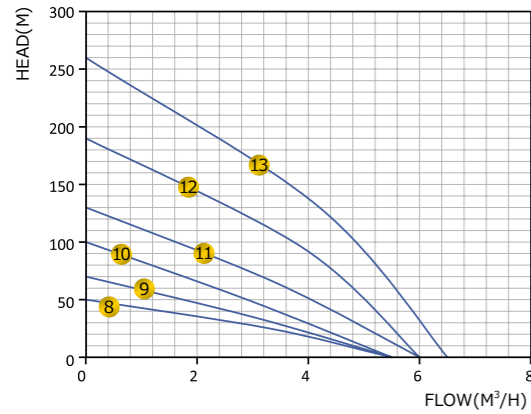
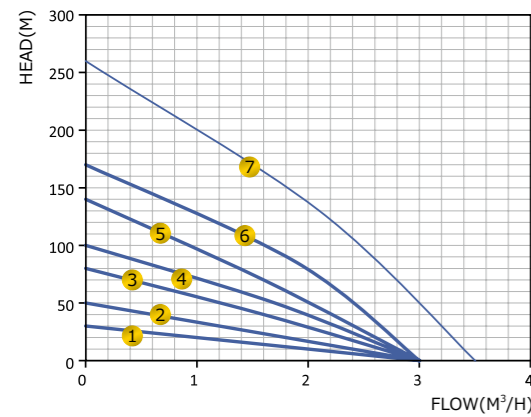
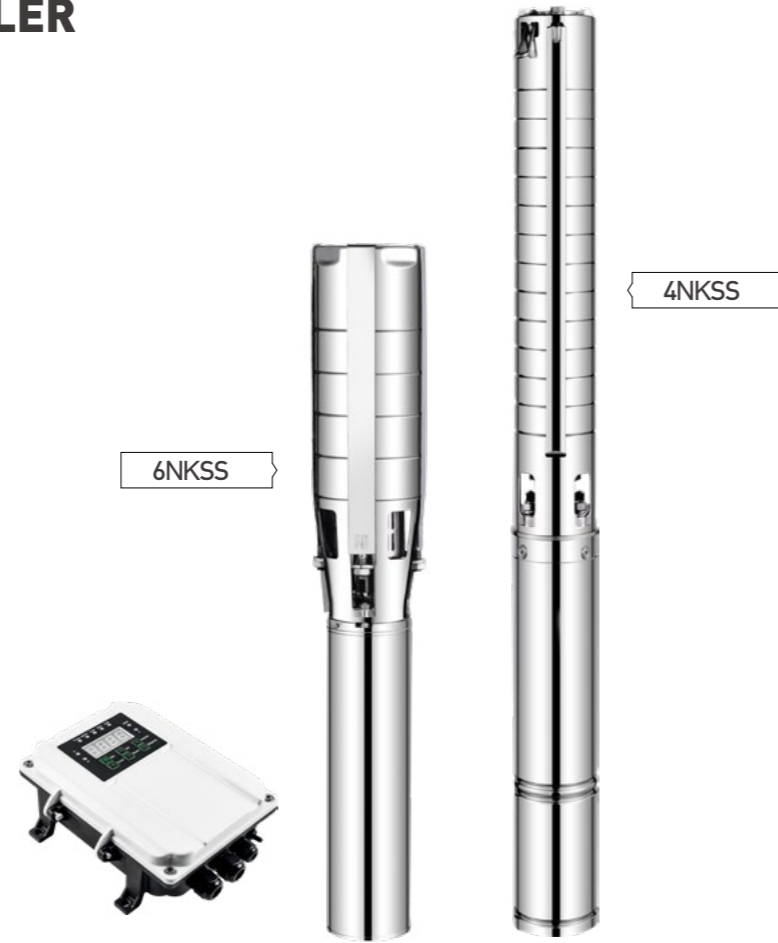


ITEM NO.	ITEM	DC VOLTAGE (V)	BEST INPUT VOLTAGE VOC (V)	POWER (W)	MAX FLOW (M³/H)	MAX HEAD (M)	OUTLET (INCH)
1	4NKC3.0-30-24-300	24	11~55	300	3.0	30	1.25"
2	4NKC3.5-50-48-400	48	45~100	400	3.5	50	1.25"
3	4NKC3.5-70-72-600	72	60~150	600	3.5	70	1.25"
4	4NKC3.5-90-96-750	96	60~200	750	3.5	90	1.25"
5	4NKC3.5-120-144-1100	144	90~340	1100	3.5	120	1.25"
6	4NKC4.5-130-192-1500	192	90~430	1500	4.5	130	1.25"
7	4NKC4.5-190-280-2200	280	100~490	2200	4.5	190	1.25"
8	4NKC6.0-30-48-400	48	45~100	400	6.0	30	1.5"
9	4NKC6.0-40-72-600	72	60~150	600	6.0	40	1.5"
10	4NKC6.5-55-96-750	96	60~200	750	6.5	55	1.5"
11	4NKC6.5-85-144-1100	144	90~340	1100	6.5	85	1.5"
12	4NKC7.0-110-192-1500	192	90~430	1500	7.0	110	1.5"
13	4NKC7.5-150-280-2200	280	100~490	2200	7.5	150	1.5"
14	4NKC7.5-210-385-3000	385	280~780	3000	7.5	210	1.5"
15	4NKC9.0-30-72-600	72	60~150	600	9.0	30	2"
16	4NKC9.0-35-96-750	96	60~200	750	9.0	35	2"
17	4NKC9.0-60-144-1100	144	90~340	1100	9.0	60	2"
18	4NKC10.0-90-192-1500	192	90~430	1500	10.0	90	2"
19	4NKC10.0-130-280-2200	280	100~490	2200	10.0	130	2"
20	4NKC10.0-170-385-3000	385	280~780	3000	10.0	170	2"
21	4NKC13.0-30-96-750	96	60~200	750	13.0	30	2"
22	4NKC14.0-45-144-1100	144	90~340	1100	14.0	45	2"
23	4NKC14.5-70-192-1500	192	90~430	1500	14.5	70	2"
24	4NKC14.5-100-280-2200	280	100~490	2200	14.5	100	2"
25	4NKC14.5-120-385-3000	385	280~780	3000	14.5	120	2"
26	4NKC20.0-45-192-1500	192	90~430	1500	20.0	45	2"
27	4NKC20.0-65-280-2200	280	100~490	2200	20.0	65	2"
28	4NKC20.0-75-385-3000	385	280~780	3000	20.0	75	2"
29	4NKC30.0-35-280-2200	280	100~490	2200	30.0	35	2"
30	4NKC30.0-50-385-3000	385	280~780	3000	30.0	50	2"

## 4" 6" BRUSHLESS SS IMPELLER SOLAR PUMP

### MATERIAL OF PUMP

- ▷ Outlet/connection fitting:304 stainless steel
- ▷ Cylinder:iron
- ▷ Pump body:stainless steel
- ▷ Impeller:304 stainless steel
- ▷ Pump cable:2M
- ▷ Oil cooling
- ▷ MPPT function controller
- ▷ 1 year warranty

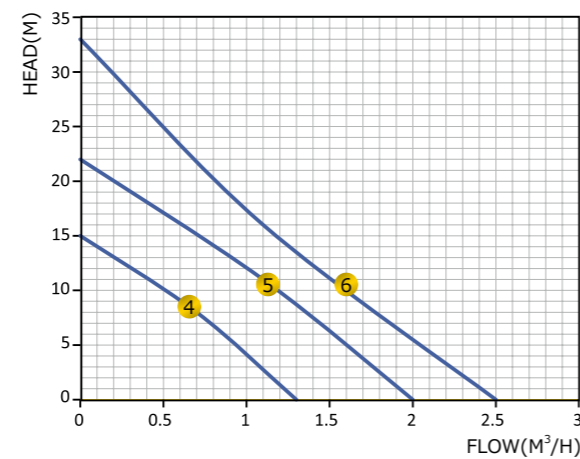
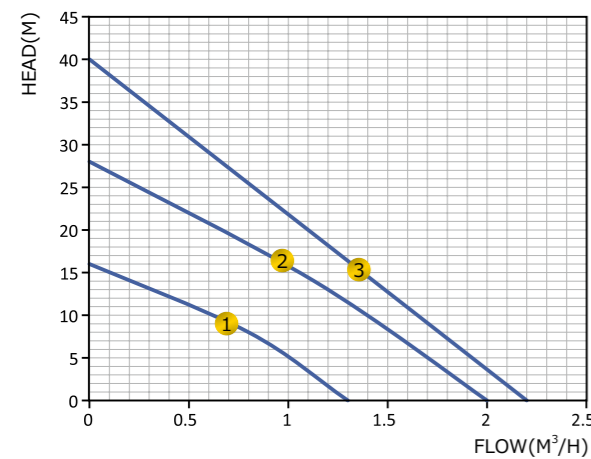


ITEM NO.	ITEM	DC VOLTAGE (V)	BEST INPUT VOLTAGE VOC (V)	POWER (W)	MAX FLOW (M³/H)	MAX HEAD (M)	OUTLET (INCH)
1	4NKSS3.0-30-24-300	24	11~55	300	3.0	30	1.25"
2	4NKSS3.0-50-48-400	48	45~150	400	3.0	50	1.25"
3	4NKSS3.0-80-72-600	72	60~150	600	3.0	80	1.25"
4	4NKSS3.0-100-96-750	96	60~200	750	3.0	100	1.25"
5	4NKSS3.0-140-144-1100	144	90~340	1100	3.0	140	1.25"
6	4NKSS3.0-170-192-1500	192	90~430	1500	3.0	170	1.25"
7	4NKSS3.5-260-280-2200	280	100~490	2200	3.5	260	1.25"
8	4NKSS5.5-50-72-600	72	60~150	600	5.5	50	1.25"
9	4NKSS5.5-70-96-750	96	60~200	750	5.5	70	1.25"
10	4NKSS5.5-100-72-1100	144	90~340	1100	5.5	100	1.25"
11	4NKSS6.0-130-96-1500	192	90~430	1500	6.0	130	1.25"
12	4NKSS6.0-190-280-2200	280	100~490	2200	6.0	190	1.25"
13	4NKSS6.5-260-385-3000	385	280~780	3000	6.5	260	1.25"
14	4NKSS7.0-40-72-600	72	60~150	600	7.0	40	1.5"
15	4NKSS8.0-50-96-750	96	60~200	750	8.0	50	1.5"
16	4NKSS8.0-80-144-1100	144	90~340	1100	8.0	80	1.5"
17	4NKSS9.0-100-192-1500	192	90~430	1500	9.0	100	1.5"
18	4NKSS9.0-140-280-2200	280	100~490	2200	9.0	140	1.5"
19	4NKSS9.5-180-385-3000	385	280~780	3000	9.5	180	1.5"
20	4NKSS15.0-30-96-750	96	60~200	750	15.0	30	2"
21	4NKSS15.0-45-144-1100	144	90~340	1100	15.0	45	2"
22	4NKSS16.0-70-192-1500	192	90~430	1500	16.0	70	2"
23	4NKSS17.0-100-280-2200	280	100~490	2200	17.0	100	2"
24	4NKSS17.0-130-385-3000	385	280~780	3000	17.0	130	2"
25	4NKSS21.0-35-192-1500	192	90~430	1500	21.0	35	2"
26	4NKSS23.0-55-280-2200	280	100~490	2200	23.0	55	2"
27	4NKSS23.0-65-385-3000	385	280~780	3000	23.0	65	2"
28	4NKSS28.0-55-385-3000	385	280~780	3000	28.0	55	2"
29	6NKSS25.0-30-192-1500	192	90~430	1500	25.0	30	3"
30	6NKSS25.0-45-280-2200	280	100~490	2200	25.0	45	3"
31	6NKSS30.0-55-385-3000	385	280~780	3000	30.0	55	3"
32	6NKSS40.0-30-385-3000	385	280~780	3000	40.0	30	3"

## NKQB DC SOLAR SURFACE PUMP

### MATERIAL OF PUMP

- ▷ Outlet:iron/stainless steel
- ▷ Pump head:iron/stainless steel
- ▷ Pump body:aluminium
- ▷ Impeller:brass
- ▷ Pump cable:1.2M
- ▷ MPPT function controller
- ▷ 1 year warranty

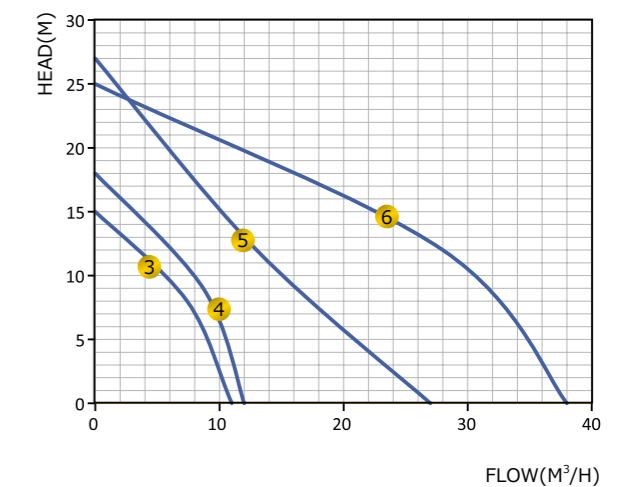
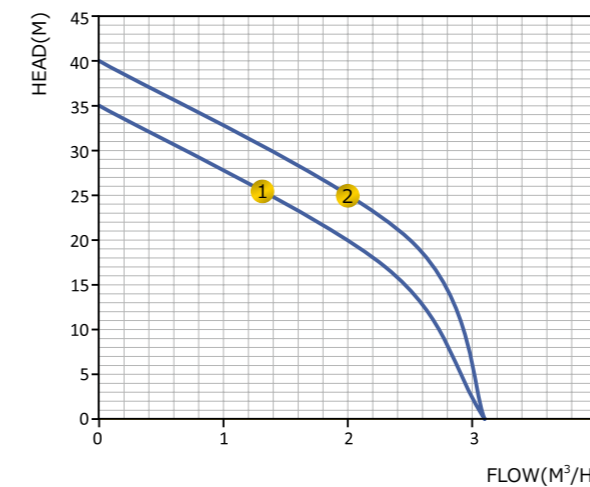


ITEM NO.	DC VOLTAGE (V)	BEST INPUT VOLTAGE VOC (V)	POWER (W)	MAX FLOW (M³/H)	MAX HEAD (M)	MAX SUCT (M)	OUTLET (INCH)
1 NKQB1.3-16-12-150	12	11~55	150	1.3	16	8	1.0"×1.0"
2 NKQB2.0-28-24-250	24	11~55	250	2.0	28	8	1.0"×1.0"
3 NKQB2.2-40-48-400	48	45~100	400	2.2	40	8	1.0"×1.0"
4 NKQB1.3-15-12-150-S	12	11~55	150	1.3	15	8	1.0"×1.0"
5 NKQB2.0-22-24-250-S	24	11~55	250	2.0	22	8	1.0"×1.0"
6 NKQB2.5-33-48-400-S	48	45~100	400	2.5	33	8	1.0"×1.0"

## NKGJ / PSZ DC SOLAR SURFACE PUMP

### MATERIAL OF PUMP

- ▷ Outlet:stainless steel/Iron
- ▷ Pump head:stainless steel/Iron
- ▷ Pump body:aluminium
- ▷ Impeller:brass/Iron
- ▷ Pump cable:1.2M
- ▷ MPPT function controller
- ▷ 1 year warranty

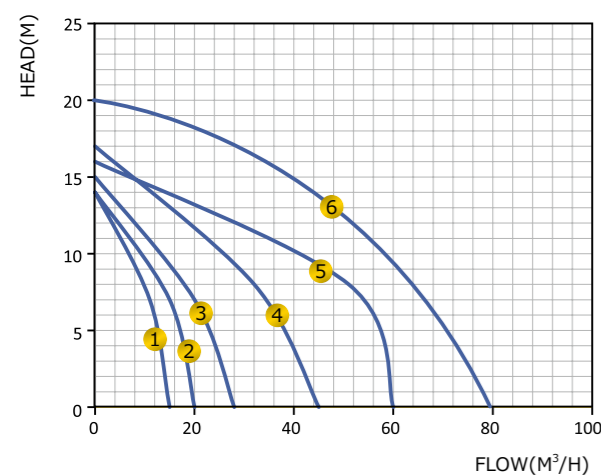


ITEM NO.	DC VOLTAGE (V)	BEST INPUT VOLTAGE VOC (V)	POWER (W)	MAX FLOW (M³/H)	MAX HEAD (M)	MAX SUCT (M)	OUTLET (INCH)
1 NKGJ3.1-35-72-600	72	60~150	600	3.1	35	8	1.0"×1.0"
2 NKGJ3.1-40-96-750	96	60~200	750	3.1	40	8	1.0"×1.0"
3 NKZ11-15-72-600	72	60~150	600	11	15	8	1.5"×1.5"(PIPE)
4 NKZ12-18-96-750	96	60~200	750	12	18	8	2.0"×2.0"(PIPE)
5 NKZ16-27-192-1500	192	90~430	1500	16	27	8	2.0"×2.0"
6 NKZ38-25-280-2200	280	100~490	2200	38	25	8	3.0"×3.0"

## NKHF DC SOLAR SURFACE PUMP

### MATERIAL OF PUMP

- ▷ Outlet:iron
- ▷ Pump head:iron
- ▷ Pump body:aluminium
- ▷ Impeller:brass
- ▷ Pump cable:1.2M
- ▷ MPPT function controller
- ▷ 1 year warranty

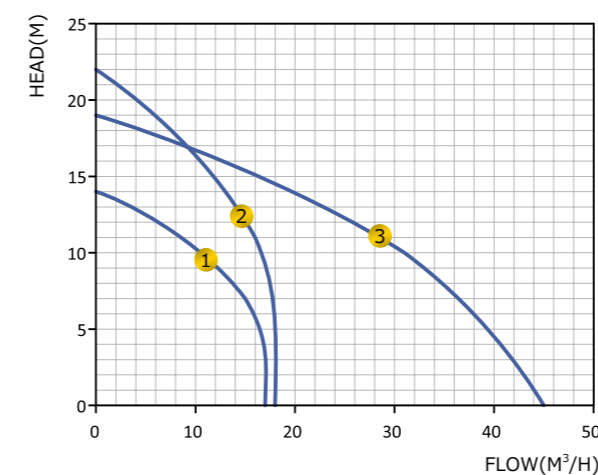


ITEM NO.	DC VOLTAGE (V)	BEST INPUT VOLTAGE VOC (V)	POWER (W)	MAX FLOW (M <sup>3</sup> /H)	MAX HEAD (M)	MAX SUCT (M)	OUTLET (INCH)
1 NKHF15-14-72-600	72	60~150	600	15	14	8	1.5"×1.5"
2 NKHF20-14-96-750	96	60~200	750	20	14	8	2.0"×2.0"
3 NKHF28-15-144-1100	144	90~340	1100	28	15	8	2.0"×2.0"
4 NKHF45-17-192-1500	192	90~430	1500	45	17	8	3.0"×3.0"
5 NKHF60-16-280-2200	280	100~490	2200	60	16	8	4.0"×4.0"
6 NKHF80-20-385-3000	385	280~780	3000	80	20	8	5.0"×5.0"

## NKSU DC SOLAR SURFACE PUMP

### MATERIAL OF PUMP

- ▷ Outlet:aluminium
- ▷ Pump head:aluminium
- ▷ Pump body:aluminium
- ▷ Impeller:iron
- ▷ Pump cable:1.2M
- ▷ MPPT function controller
- ▷ 1 year warranty

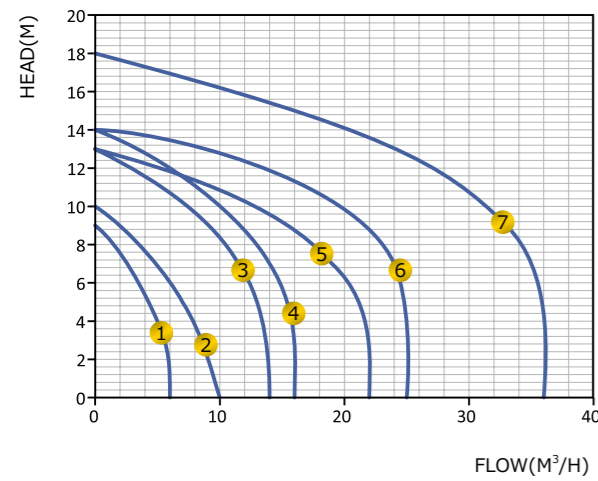


ITEM NO.	DC VOLTAGE (V)	BEST INPUT VOLTAGE VOC (V)	POWER (W)	MAX FLOW (M <sup>3</sup> /H)	MAX HEAD (M)	MAX SUCT (M)	OUTLET (INCH)
1 NKSU17-14-144-1100	144	90~340	1100	17	14	8	2.0"×2.0"
2 NKSU18-22-192-1500	192	90~430	1500	18	22	8	2.0"×2.0"
3 NKSU45-19-280-2200	280	100~490	2200	45	19	8	3.0"×3.0"

## NKP DC SOLAR SWIMMING POOL PUMP

### MATERIAL OF PUMP

- ▷ Outlet:plastic
- ▷ Pump head:plastic
- ▷ Pump body:aluminium
- ▷ Impeller:plastic
- ▷ Pump cable:1.2M
- ▷ MPPT function controller
- ▷ 1 year warranty

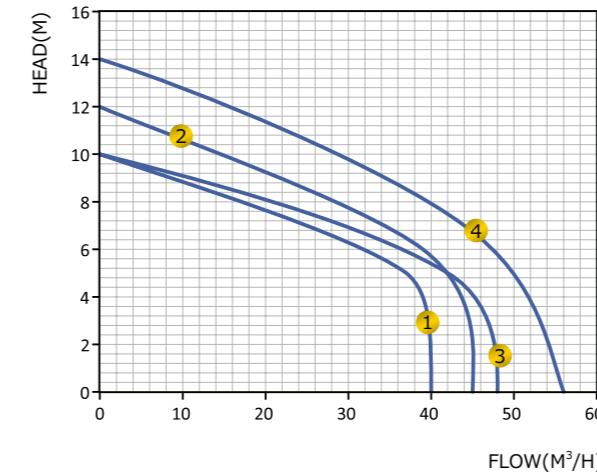


ITEM NO.	DC VOLTAGE (V)	BEST INPUT VOLTAGE VOC (V)	POWER (W)	MAX FLOW (M³/H)	MAX HEAD (M)	MAX SUCT (M)	TUBE DIAMETER (MM)
1 NKP6-9-24-200	24	11~55	200	6	9	8	Φ 32/ Φ 38
2 NKP10-10-24-370	24	11~55	370	10	10	8	Φ 50
3 NKP14-13-72-600	72	60~150	600	14	13	8	Φ 50
4 NKP16-14-96-750	96	60~200	750	16	14	8	Φ 50
5 NKP22-13-144-1100	144	90~340	1100	22	13	8	Φ 60/ Φ 63
6 NKP25-14-192-1500	192	90~430	1500	25	14	8	Φ 60/ Φ 63
7 NKP36-18-280-2200	280	100~490	2200	36	18	8	Φ 60/ Φ 63

## NKG DC SOLAR SUBMERSIBLE PUMP

### MATERIAL OF PUMP

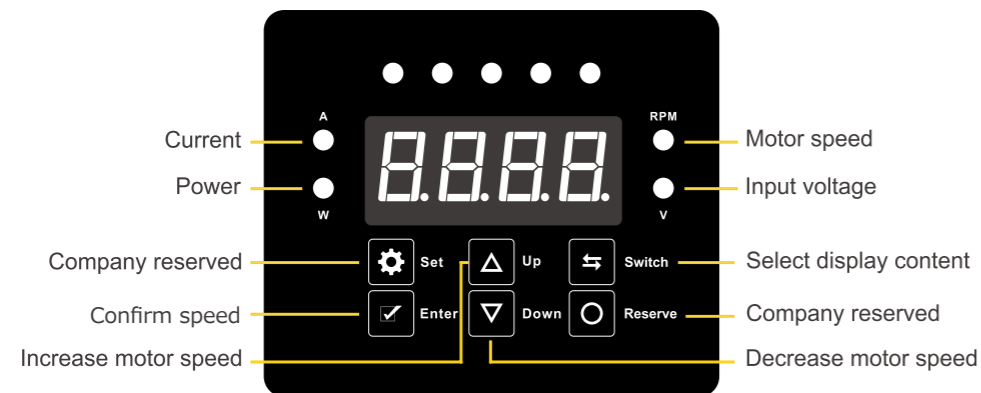
- ▷ Outlet:iron
- ▷ Pump head:iron
- ▷ Pump body:iron
- ▷ Impeller:aluminium
- ▷ Pump cable:2M
- ▷ MPPT function controller
- ▷ 1 year warranty



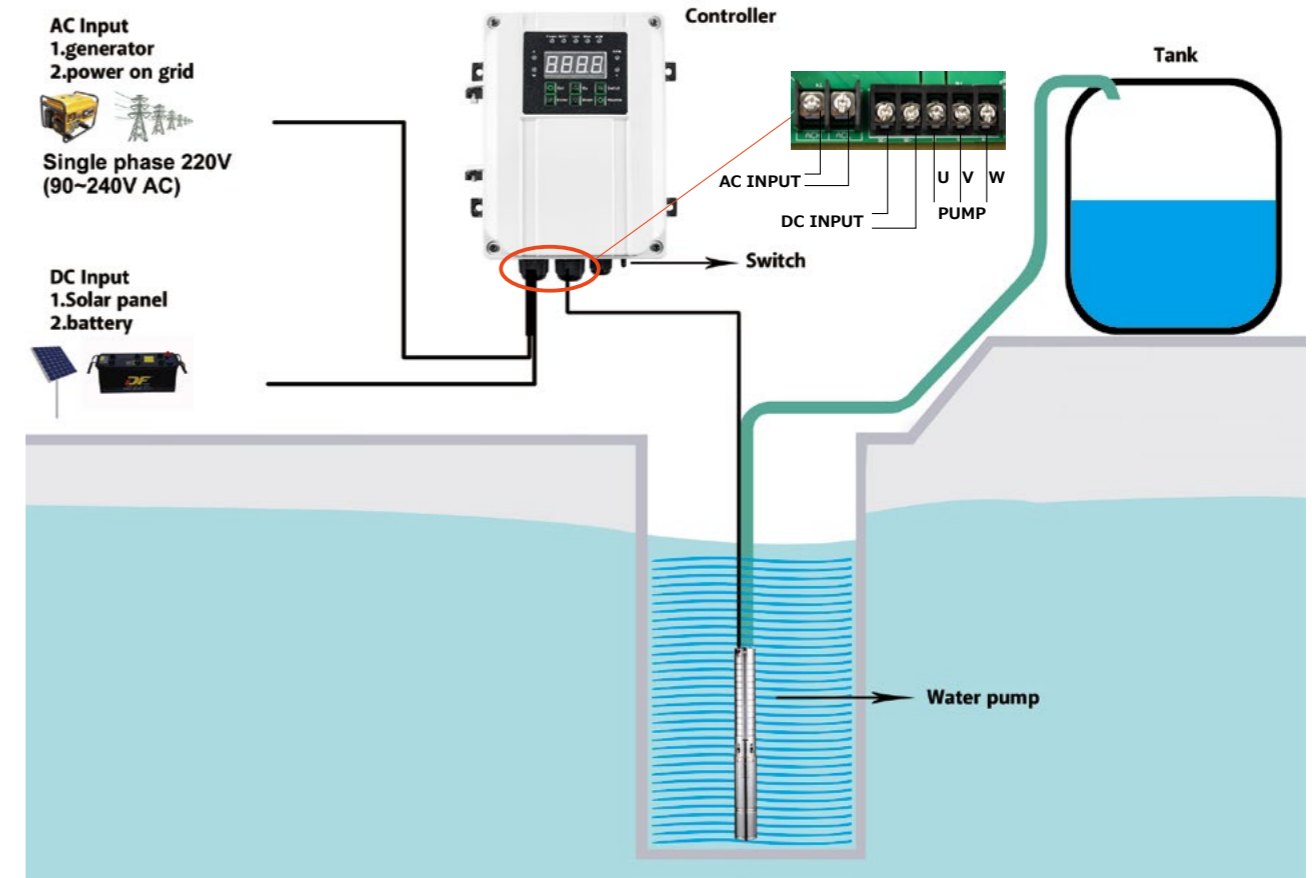
ITEM NO.	DC VOLTAGE (V)	BEST INPUT VOLTAGE VOC (V)	POWER (W)	MAX FLOW (M³/H)	MAX HEAD (M)	OUTLET (INCH)
1 NKG40-10-144-1100	144	90~340	1100	40	10	3"
2 NKG45-12-192-1500	192	90~430	1500	45	12	3"
3 NKG48-10-192-1500	192	90~430	1500	48	10	4"
4 NKG56-14-280-2200	280	100~490	2200	56	14	4"

## 2. AC/DC SOLAR PUMP

- ▷ Support single phase 220V AC 50/60Hz (90-240Vac) electricity/generator input and solar DC power input, can realize AC or DC input switching by operating a external knife switch.
- ▷ Permanent magnet DC brushless motor, efficiency improved by 20~30%.
- ▷ Longer service life than normal electrical AC pump motor.
- ▷ High efficiency intelligent MPPT controller makes pump start and stop working automatically.
- ▷ Overload protection, over current protection, underload protection, under voltage protection, reverse connect protection, thermal protection, well shortage water protection, soft start.
- ▷ Controller LED screen displays voltage, current, power, speed RPM, adjusting speed, error code.
- ▷ Controller waterproofing grade IP54.
- ▷ Ambient temperature: -15~70 °C.



## AC input and DC input can work at the same time



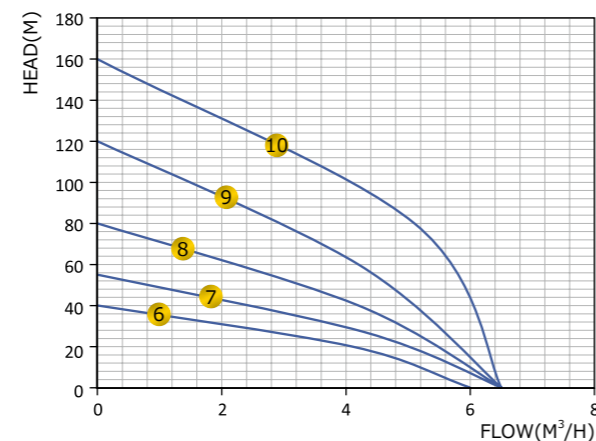
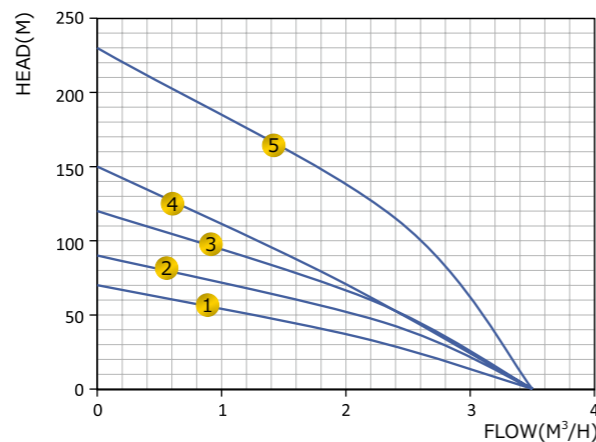
## Solar panels connection for AC/DC solar pump

AC/DC Pump	AC Input Voltage(V)	DC Input Voltage VOC(V)	Solar Panels Connection
72V 600W	Single phase 220 (90~240)	60~200	 250Wp*4PCS 300Wp*3PCS
96V 750W	Single phase 220 (90~240)	60~240	 250Wp*4PCS 300Wp*4PCS
144V 1100W	Single phase 220 (90~240)	90~340	 250Wp*6PCS 300Wp*5PCS
192V 1500W	Single phase 220 (90~240)	90~430	 250Wp*8PCS 300Wp*7PCS
280V 2200W	Single phase 220 (90~240)	100~490	 250Wp*12PCS 300Wp*10PCS

## 3" AC/DC PLASTIC IMPELLER SOLAR PUMP

### MATERIAL OF PUMP

- ▷ Outlet/connection fitting: stainless steel
- ▷ Cylinder: iron
- ▷ Pump body: 201 stainless steel
- ▷ Pump cable: 2M
- ▷ Oil cooling
- ▷ MPPT function controller
- ▷ 1 year warranty

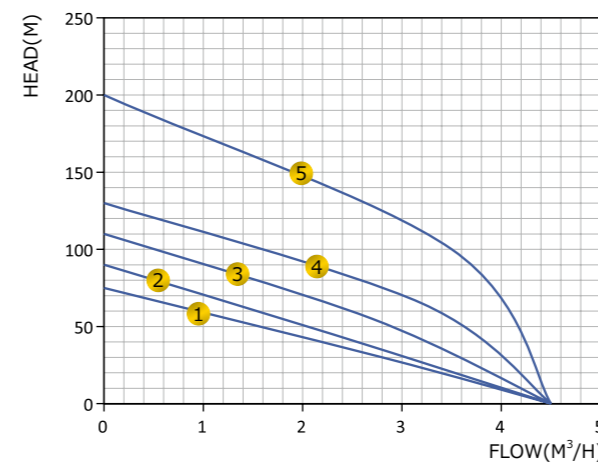
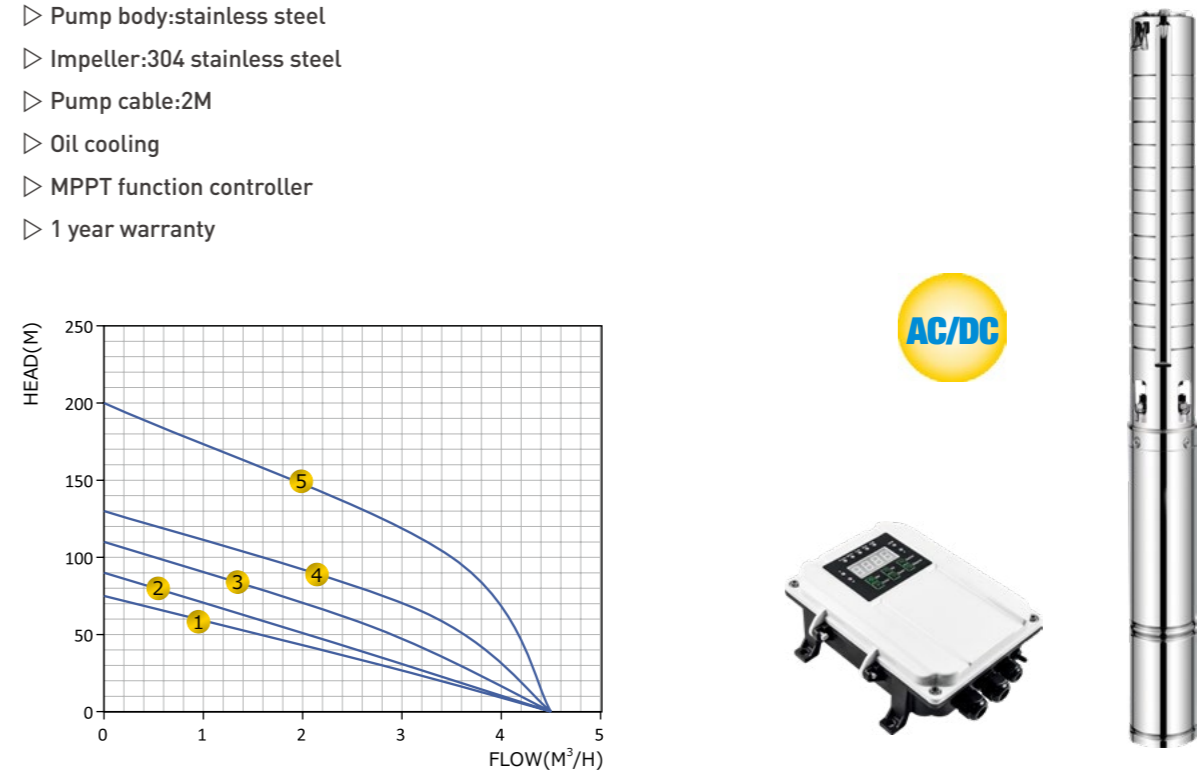


ITEM NO.	ITEM	AC INPUT VOLTAGE (V)	DC INPUT VOLTAGE VOC (V)	POWER (W)	MAX FLOW (M³/H)	MAX HEAD (M)	OUTLET (INCH)
1	3NKC3.5-70-72-600-H	90~240	60~200	600	3.5	70	1"
2	3NKC3.5-90-96-750-H	90~240	60~240	750	3.5	90	1"
3	3NKC3.5-120-144-1100-H	90~240	90~340	1100	3.5	120	1"
4	3NKC3.5-150-192-1500-H	90~240	90~430	1500	3.5	150	1"
5	3NKC3.5-230-280-2200-H	90~240	100~490	2200	3.5	230	1"
6	3NKC6.0-40-72-600-H	90~240	60~200	600	6.0	40	1"
7	3NKC6.5-55-96-750-H	90~240	60~240	750	6.5	55	1"
8	3NKC6.5-80-144-1100-H	90~240	90~340	1100	6.5	80	1"
9	3NKC6.5-120-192-1500-H	90~240	90~430	1500	6.5	120	1"
10	3NKC6.5-160-280-2200-H	90~240	100~490	2200	6.5	160	1"

## 3" AC/DC SS IMPELLER SOLAR PUMP

### MATERIAL OF PUMP

- ▷ Outlet/connection fitting: 304 stainless steel
- ▷ Cylinder: iron
- ▷ Pump body: stainless steel
- ▷ Impeller: 304 stainless steel
- ▷ Pump cable: 2M
- ▷ Oil cooling
- ▷ MPPT function controller
- ▷ 1 year warranty

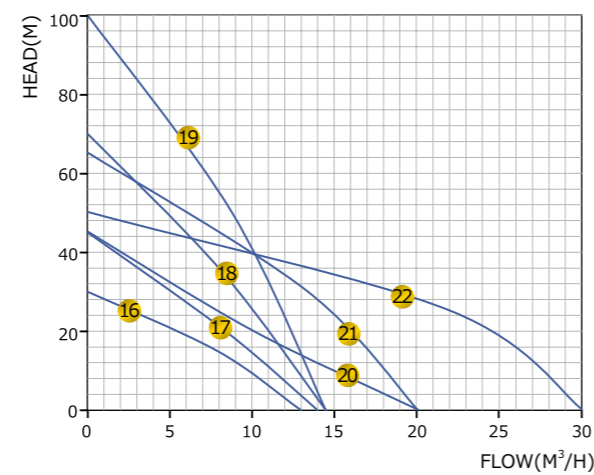
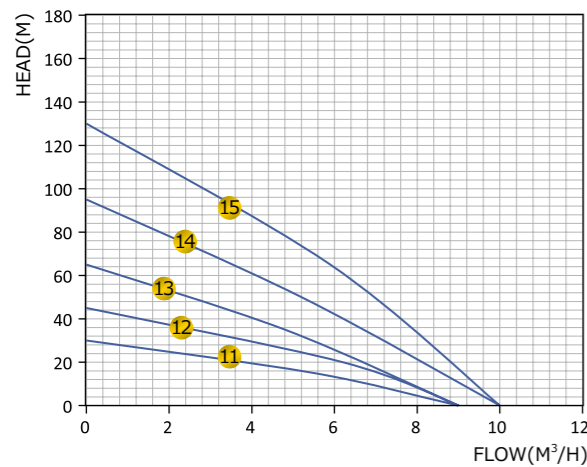
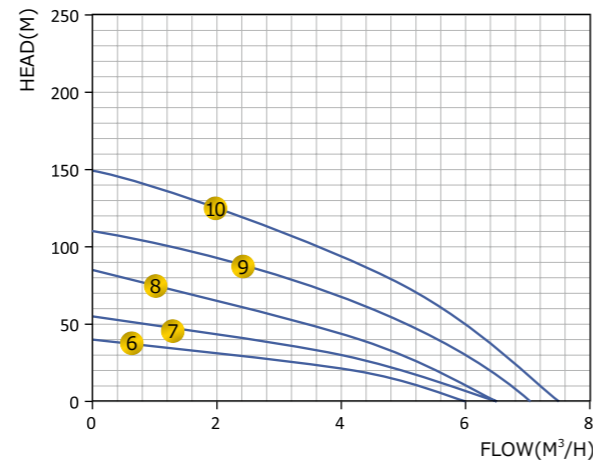
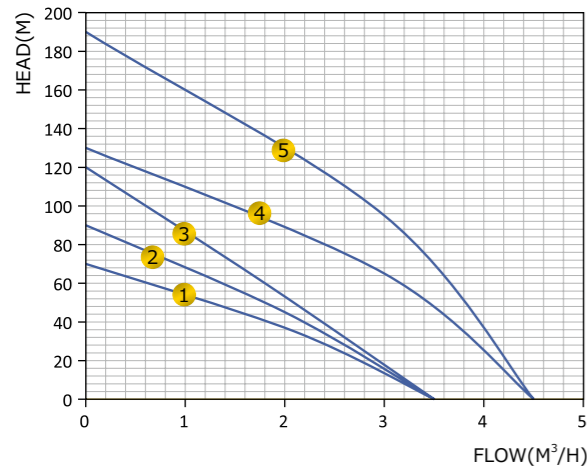


ITEM NO.	ITEM	AC INPUT VOLTAGE (V)	DC INPUT VOLTAGE VOC (V)	POWER (W)	MAX FLOW (M³/H)	MAX HEAD (M)	OUTLET (INCH)
1	3PNKS4.5-75-72-600-H	90~240	60~200	600	4.5	75	1.25"
2	3PNKS4.5-90-96-750-H	90~240	60~240	750	4.5	90	1.25"
3	3PNKS4.5-110-144-1100-H	90~240	90~340	1100	4.5	110	1.25"
4	3PNKS4.5-130-192-1500-H	90~240	90~430	1500	4.5	130	1.25"
5	3PNKS4.5-200-280-2200-H	90~240	100~490	2200	4.5	200	1.25"

## 4" AC/DC PLASTIC IMPELLER SOLAR PUMP

### MATERIAL OF PUMP

- ▷ Outlet/connection fitting:stainless steel
- ▷ Cylinder:iron
- ▷ Pump body:stainless steel
- ▷ Impeller:plastic impeller
- ▷ Pump cable:2M
- ▷ Oil cooling
- ▷ MPPT function controller
- ▷ 1 year warranty



ITEM NO.	MODEL	AC INPUT VOLTAGE (V)	DC INPUT VOLTAGE VOC (V)	POWER (W)	MAX FLOW (M³/H)	MAX HEAD (M)	OUTLET (INCH)
1	4NKC3.5-70-72-600-H	90~240	60~200	600	3.5	70	1.25"
2	4NKC3.5-90-96-750-H	90~240	60~240	750	3.5	90	1.25"
3	4NKC3.5-120-144-1100-H	90~240	90~340	1100	3.5	120	1.25"
4	4NKC4.5-130-192-1500-H	90~240	90~430	1500	4.5	130	1.25"
5	4NKC4.5-190-280-2200-H	90~240	100~490	2200	4.5	190	1.25"
6	4NKC6.0-40-72-600-H	90~240	60~200	600	6.0	40	1.5"
7	4NKC6.5-55-96-750-H	90~240	60~240	750	6.5	55	1.5"
8	4NKC6.5-85-144-1100-H	90~240	90~340	1100	6.5	85	1.5"
9	4NKC7.0-110-192-1500-H	90~240	90~430	1500	7.0	110	1.5"
10	4NKC7.5-150-280-2200-H	90~240	100~490	2200	7.5	150	1.5"
11	4NKC9.0-30-72-600-H	90~240	60~200	600	9.0	30	2"
12	4NKC9.0-35-96-750-H	90~240	60~240	750	9.0	35	2"
13	4NKC9.0-60-144-1100-H	90~240	90~340	1100	9.0	60	2"
14	4NKC10.0-90-192-1500-H	90~240	90~430	1500	10.0	90	2"
15	4NKC10.0-130-280-2200-H	90~240	100~490	2200	10.0	130	2"
16	4NKC13.0-30-96-750-H	90~240	60~200	750	13.0	30	2"
17	4NKC14.0-45-144-1100-H	90~240	90~340	1100	14.0	45	2"
18	4NKC14.5-70-192-1500-H	90~240	90~430	1500	14.5	70	2"
19	4NKC14.5-100-280-2200-H	90~240	100~490	2200	14.5	100	2"
20	4NKC20.0-45-192-1500-H	90~240	90~430	1500	20.0	45	2"
21	4NKC20.0-65-280-2200-H	90~240	100~490	2200	20.0	65	2"
22	4NKC30.0-35-280-2200-H	90~240	100~490	2200	30.0	35	2"

## 4" 6" AC/DC SS IMPELLER SOLAR PUMP

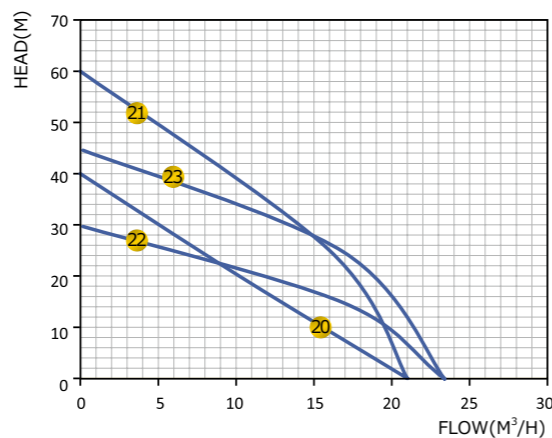
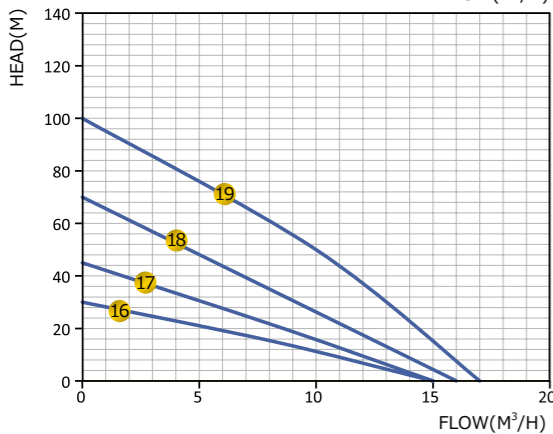
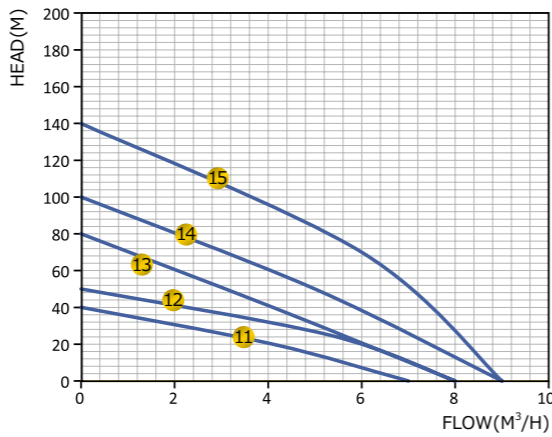
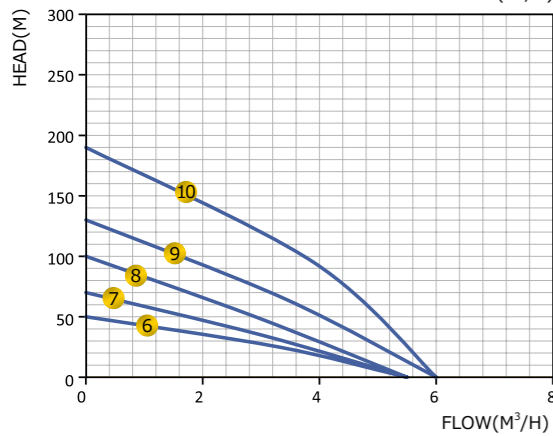
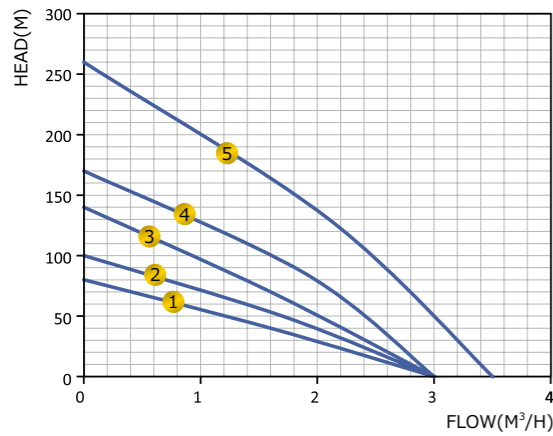
### MATERIAL OF PUMP

- ▷ Outlet/connection fitting:304 stainless steel
- ▷ Cylinder:iron
- ▷ Pump body:stainless steel
- ▷ Impeller:304 stainless steel
- ▷ Pump cable:2M
- ▷ Oil cooling
- ▷ MPPT function controller
- ▷ 1 year warranty



6PNKS -H

4PNKS-H

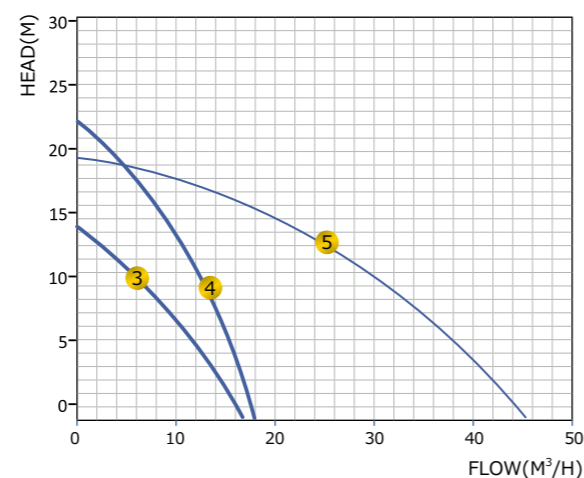
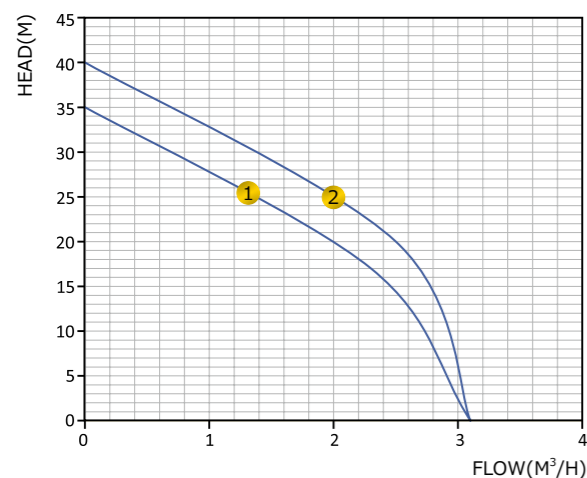


ITEM NO.	ITEM	AC INPUT VOLTAGE (V)	DC INPUT VOLTAGE VOC (V)	POWER (W)	MAX FLOW (M³/H)	MAX HEAD (M)	OUTLET (INCH)
1	4PNKS3.0-80-72-600-H	90~240	60~200	600	3.0	80	1.25"
2	4PNKS3.0-100-96-750-H	90~240	60~240	750	3.0	100	1.25"
3	4PNKS3.0-140-144-1100-H	90~240	90~340	1100	3.0	140	1.25"
4	4PNKS3.0-170-192-1500-H	90~240	90~430	1500	3.0	170	1.25"
5	4PNKS3.5-260-280-2200-H	90~240	100~490	2200	3.5	260	1.25"
6	4PNKS5.5-50-72-600-H	90~240	60~200	600	5.5	50	1.25"
7	4PNKS5.5-70-96-750-H	90~240	60~240	750	5.5	70	1.25"
8	4PNKS5.5-100-144-1100-H	90~240	90~340	1100	5.5	100	1.25"
9	4PNKS6.0-130-192-1500-H	90~240	90~430	1500	6.0	130	1.25"
10	4PNKS6.0-190-280-2200-H	90~240	100~490	2200	6.0	190	1.25"
11	4PNKS7.0-40-72-600-H	90~240	60~200	600	7.0	40	1.5"
12	4PNKS8.0-50-96-750-H	90~240	60~240	750	8.0	50	1.5"
13	4PNKS8.0-80-144-1100-H	90~240	90~340	1100	8.0	80	1.5"
14	4PNKS9.0-100-192-1500-H	90~240	90~430	1500	9.0	100	1.5"
15	4PNKS9.0-140-280-2200-H	90~240	100~490	2200	9.0	140	1.5"
16	4PNKS15.0-30-96-750-H	90~240	60~240	750	15.0	30	2"
17	4PNKS15.0-45-144-1100-H	90~240	90~340	1100	15.0	45	2"
18	4PNKS16.0-70-192-1500-H	90~240	90~430	1500	16.0	70	2"
19	4PNKS17.0-100-280-2200-H	90~240	100~490	2200	17.0	100	2"
20	4PNKS21.0-40-192-1500-H	90~240	90~430	1500	21.0	40	2"
21	4PNKS21.0-60-280-2200-H	90~240	100~490	2200	21.0	60	2"
22	6PNKS25.0-30-192-1500-H	90~240	90~430	1500	25.0	30	3"
23	6PNKS25.0-45-280-2200-H	90~240	100~490	2200	25.0	45	3"

## NKGJ-H / PZSU-H AC/DC SOLAR SURFACE PUMP

### MATERIAL OF PUMP

- ▷ Outlet:stainless steel/aluminium
- ▷ Pump head:stainless steel/aluminium
- ▷ Pump body:aluminium
- ▷ Impeller:brass/iron
- ▷ Cable:1.2M
- ▷ Air cooling
- ▷ MPPT function controller
- ▷ AC input:single phase 220V
- ▷ 1 year warranty

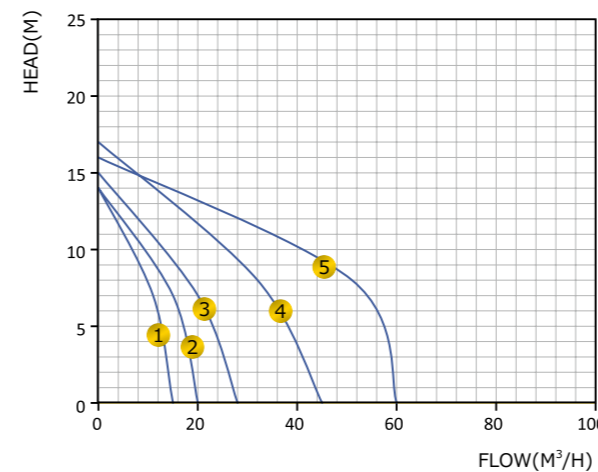


ITEM NO.	ITEM	AC INPUT VOLTAGE (V)	DC INPUT VOLTAGE VOC (V)	POWER (W)	MAX FLOW (M³/H)	MAX HEAD (M)	MAX SUCT (M)	OUTLET (INCH)
1	NKGJ3.1-35-72-600-H	90~240	60~200	600	3.1	35	8	1.0"×1.0"
2	NKGJ3.1-40-96-750-H	90~240	60~240	750	3.1	40	8	1.0"×1.0"
3	NKSU17-14-144-1100-H	90~240	90~340	1100	17	14	8	2.0"×2.0"
4	NKSU18-22-192-1500-H	90~240	90~430	1500	18	22	8	2.0"×2.0"
5	NKSU45-19-280-2200-H	90~240	100~490	2200	45	19	8	3.0"×3.0"

## NKPHF-H AC/DC SOLAR SURFACE PUMP

### MATERIAL OF PUMP

- ▷ Outlet:iron
- ▷ Pump head:iron
- ▷ Pump body:aluminium
- ▷ Impeller:brass
- ▷ Pump cable:1.2M
- ▷ MPPT function controller
- ▷ 1 year warranty

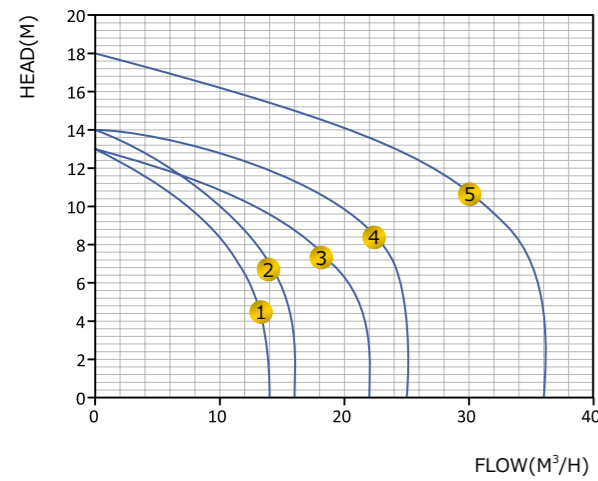


ITEM NO.	ITEM	AC INPUT VOLTAGE (V)	DC INPUT VOLTAGE VOC (V)	POWER (W)	MAX FLOW (M³/H)	MAX HEAD (M)	MAX SUCT (M)	OUTLET (INCH)
1	NKPHF15-14-72-600-H	90~240	60~200	600	15	14	8	1.5"×1.5"
2	NKPHF20-14-96-750-H	90~240	60~240	750	20	14	8	2.0"×2.0"
3	NKPHF28-15-144-1100-H	90~240	90~340	1100	28	15	8	2.0"×2.0"
4	NKPHF45-17-192-1500-H	90~240	90~430	1500	45	17	8	3.0"×3.0"
5	NKPHF60-16-280-2200-H	90~240	100~490	2200	60	16	8	4.0"×4.0"

## NKP-H AC/DC SOLAR SWIMMING POOL PUMP

### MATERIAL OF PUMP

- ▷ Outlet:plastic
- ▷ Pump head:plastic
- ▷ Pump body:aluminium
- ▷ Impeller:plastic
- ▷ Pump cable:1.2M
- ▷ MPPT function controller
- ▷ 1 year warranty

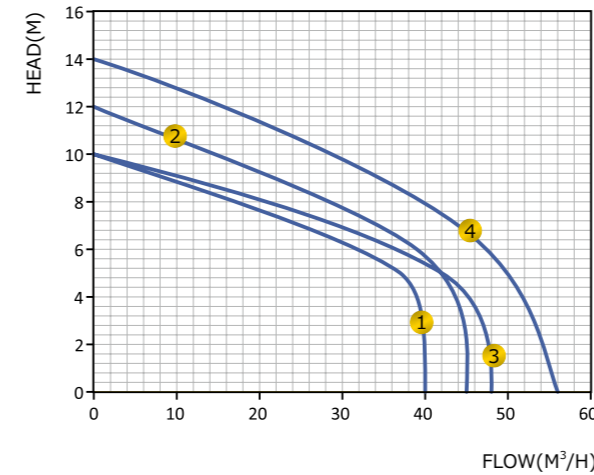


ITEM NO.	ITEM	AC INPUT VOLTAGE (V)	DC INPUT VOLTAGE VOC (V)	POWER (W)	MAX FLOW (M <sup>3</sup> /H)	MAX HEAD (M)	MAX SUCT (M)	TUBE DIAMETER (MM)
1	NKP14-13-72-600-H	90~240	60~200	600	14	13	8	Φ 50
2	NKP16-14-96-750-H	90~240	60~240	750	16	14	8	Φ 50
3	NKP22-13-144-1100-H	90~240	90~340	1100	22	13	8	Φ 60/ Φ 63
4	NKP25-14-192-1500-H	90~240	90~430	1500	25	14	8	Φ 60/ Φ 63
5	NKP36-18-280-2200-H	90~240	100~490	2200	36	18	8	Φ 60/ Φ 63

## NKG-H AC/DC SOLAR SUBMERSIBLE PUMP

### MATERIAL OF PUMP

- ▷ Outlet:iron
- ▷ Pump head:iron
- ▷ Pump body:iron
- ▷ Impeller:aluminium
- ▷ Pump cable:2M
- ▷ MPPT function controller
- ▷ 1 year warranty



ITEM NO.	ITEM	AC INPUT VOLTAGE (V)	DC INPUT VOLTAGE VOC (V)	POWER (W)	MAX FLOW (M <sup>3</sup> /H)	MAX HEAD (M)	OUTLET (INCH)
1	NKG40-10-144-1100-H	90~240	90~340	1100	40	10	3"
2	NKG45-12-192-1500-H	90~240	90~430	1500	45	12	3"
3	NKG48-10-192-1500-H	90~240	90~430	1500	48	10	4"
4	NKG56-14-280-2200-H	90~240	100~490	2200	56	14	4"