

HANOURO[®]



SOLAR PUMP



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NO POLLUTION FOR WATER
DEEP SUBMERGE DEPTH TILL 300 METERS
LONGER LIFE TIME
NO LEAKAGE PROBLEM
SHIELDED MOTOR



SOLAR WATER PUMP



HD-2SS
BRUSHLESS SOLAR PUMP

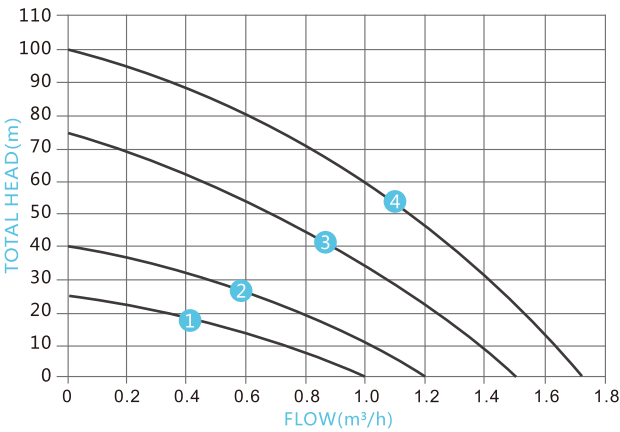


- ADVANTAGE FOR SOLAR WATER PUMP**
- 1. With high efficiency permanent magnetic motor, efficiency improved 15%-30%
 - 2. Environmental protection, clean energy, can be powered by both solar panel and battery
 - 3. Over-load protection, under-load protection, lock-rotor protection, thermal protection
 - 4. With MPPT function
 - 5. Much longer life than the normal AC water pump.

APPLICATION FIELD

These water pumps are used in irrigation of agriculture, and also widely used for drinking water and living water use

PERFORMANCE CURVES



TECHNICAL DATA

ITEM	Voltage	Best DC Voltage	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								open voltage	Power
1 HD-2SS1.0-25-12-80	12V	20V-36V	80W	1.0m³/h	25m	0.75"	1.5m	<50V	≥150w
2 HD-2SS1.2-40-24-120	24V	30V-48V	120W	1.2m³/h	40m	0.75"	1.5m	<50V	≥250w
3 HD-2SS1.5-75-36-210	36V	30V-48V	210W	1.5m³/h	75m	0.75"	1.5m	<50V	≥300w
4 HD-2SS1.7-100-48-500	48V	60V-90V	500W	1.7m³/h	100m	0.75"	1.5m	<100V	≥600w

HD-2SC
BRUSHLESS SOLAR PUMP

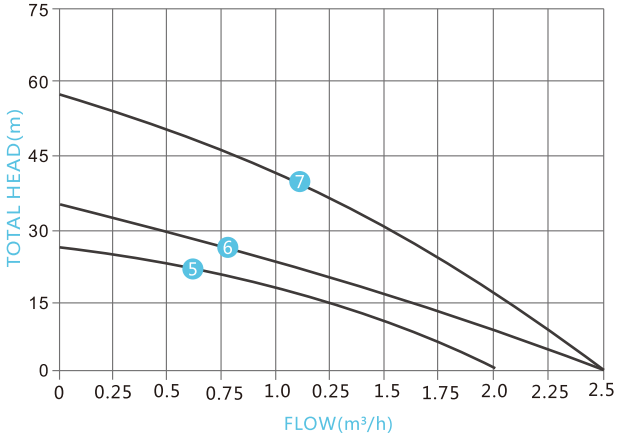


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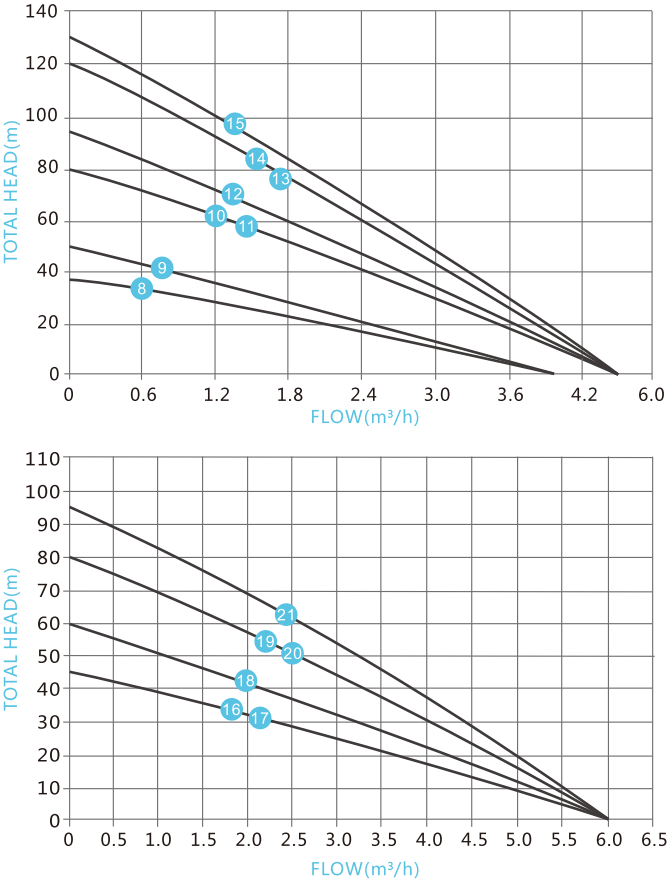
TECHNICAL DATA

ITEM	Voltage	Best DC Voltage	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								open voltage	Power
5 HD-2SC2.0-25-12-200	12V	20V-36V	200W	2.0m³/h	25m	0.6"	1.5m	<50V	≥300W
6 HD-2SC2.5-36-24-300	24V	30V-48V	300W	2.5m³/h	36m	0.6"	1.5m	<50V	≥500W
7 HD-2SC2.5-55-48-400	48V	60V-90V	400W	2.5m³/h	55m	0.6"	1.5m	<100V	≥600W

HD-3SSC
BRUSHLESS SOLAR PUMP



PERFORMANCE CURVES



TECHNICAL DATA

ITEM	Voltage	Best DC Voltage	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								open voltage	Power
8 HD-3SSC4-35-24-300	24V	30V-48V	300W	4m³/h	35m	1.25"	2m	<50V	≥500W
9 HD-3SSC4-50-48-400	48V	60V-90V	400W	4m³/h	50m	1.25"	2m	<100V	≥600W
10 HD-3SSC4.5-80-48-600	48V	60V-90V	600W	4.5m³/h	80m	1.25"	2m	<100V	≥750W
11 HD-3SSC4.5-80-72-600	72V	90V-120V	600W	4.5m³/h	80m	1.25"	2m	<150V	≥750W
12 HD-3SSC4.5-95-72-750	72V	90V-120V	750W	4.5m³/h	95m	1.25"	2m	<150V	≥1000W
13 HD-3SSC4.5-120-72-1100	72V	90V-120V	1100W	4.5m³/h	120m	1.25"	2m	<150V	≥1500W
14 HD-3SSC4.5-120-110-1100	110V	110V-150V	1100W	4.5m³/h	120m	1.25"	2m	<200V	≥1500W
15 HD-3SSC4.5-130-110-1500	110V	110V-150V	1500W	4.5m³/h	130m	1.25"	2m	<200V	≥2000W
16 HD-3SSC6-44-48-600	48V	60V-90V	600W	6m³/h	44m	1.25"	2m	<100V	≥750W
17 HD-3SSC6-44-72-600	72V	90V-120V	600W	6m³/h	44m	1.25"	2m	<150V	≥750W
18 HD-3SSC6-60-72-750	72V	90V-120V	750W	6m³/h	60m	1.25"	2m	<150V	≥1000W
19 HD-3SSC6-80-72-1100	72V	90V-120V	1100W	6m³/h	80m	1.25"	2m	<150V	≥1500W
20 HD-3SSC6-80-110-1100	110V	110V-150V	1100W	6m³/h	80m	1.25"	2m	<200V	≥1500W
21 HD-3SSC6-95-110-1500	110V	110V-150V	1500W	6m³/h	95m	1.25"	2m	<200V	≥2000W

HD-3SC
BRUSHLESS SOLAR PUMP



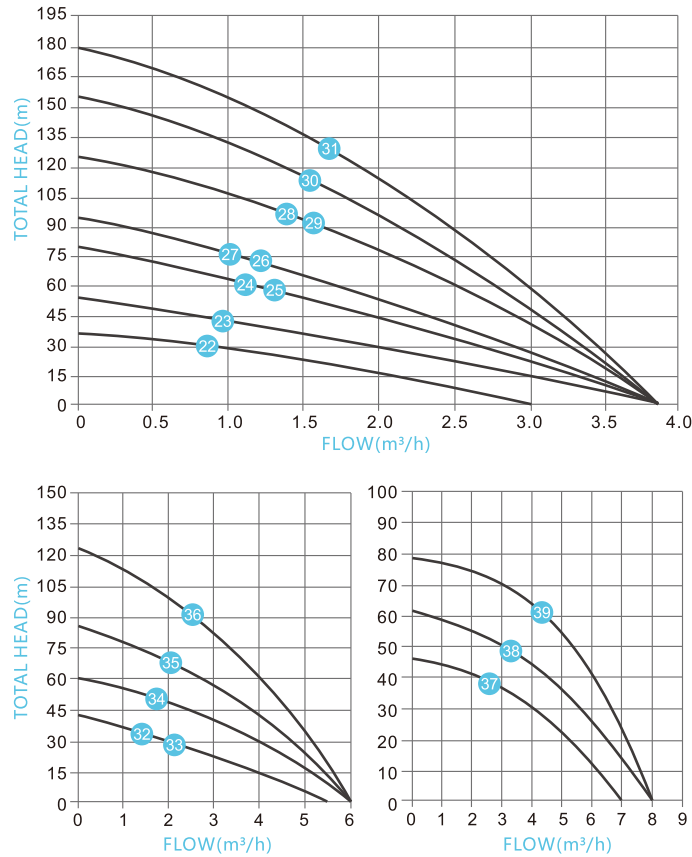
ADVANTAGE FOR SOLAR WATER PUMP

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- 5. Much longer life than the normal AC water pump

APPLICATION FIELD

- These water pumps are used in irrigation of agriculture, also widely used for drinking water and living water use

PERFORMANCE CURVES



TECHNICAL DATA

ITEM	Voltage	Best DC Voltage	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								open voltage	Power
22 HD-3SC3-35-24-300	24V	30V-48V	300W	3.0m³/h	35m	1.25"	2m	<50V	≥500W
23 HD-3SC3.8-55-48-400	48V	60V-90V	400W	3.8m³/h	55m	1.25"	2m	<100V	≥600W
24 HD-3SC3.8-80-48-600	48V	60V-90V	600W	3.8m³/h	80m	1.25"	2m	<100V	≥750W
25 HD-3SC3.8-80-72-600	72V	90V-120V	600W	3.8m³/h	80m	1.25"	2m	<150V	≥750W
26 HD-3SC3.8-95-48-750	48V	60V-90V	750W	3.8m³/h	95m	1.25"	2m	<100V	≥1000W
27 HD-3SC3.8-95-72-750	72V	90V-120V	750W	3.8m³/h	95m	1.25"	2m	<150V	≥1000W
28 HD-3SC3.8-123-72-1100	72V	90V-120V	1100W	3.8m³/h	123m	1.25"	2m	<150V	≥1500W
29 HD-3SC3.8-123-110-1100	110V	110V-150V	1100W	3.8m³/h	123m	1.25"	2m	<200V	≥1500W
30 HD-3SC3.8-155-110-1300	110V	110V-150V	1300W	3.8m³/h	155m	1.25"	2m	<200V	≥1800W
31 HD-3SC3.8-180-110-1500	110V	110V-150V	1500W	3.8m³/h	180m	1.25"	2m	<200V	≥2000W
32 HD-3SC5.5-42-48-600	48V	60V-90V	600W	5.5m³/h	42m	1.25"	2m	<100V	≥750W
33 HD-3SC5.5-42-72-600	72V	90V-120V	600W	5.5m³/h	42m	1.25"	2m	<150V	≥750W
34 HD-3SC6-60-72-750	72V	90V-120V	750W	6m³/h	60m	1.25"	2m	<150V	≥1000W
35 HD-3SC6-85-110-1100	110V	110V-150V	1100W	6m³/h	85m	1.25"	2m	<200V	≥1500W
36 HD-3SC6-125-110-1500	110V	110V-150V	1500W	6m³/h	125m	1.25"	2m	<200V	≥2000W
37 HD-3SC7-46-72-750	72V	90V-120V	750W	7m³/h	46m	1.25"/1.5"	2m	<150V	≥1000W
38 HD-3SC8-62-110-1100	110V	110V-150V	1100W	8m³/h	62m	1.25"/1.5"	2m	<200V	≥1500W
39 HD-3SC8-78-110-1500	110V	110V-150V	1500W	8m³/h	78m	1.25"/1.5"	2m	<200V	≥2000W

HD-3SS
BRUSHLESS SOLAR PUMP



TECHNICAL DATA

ITEM	Voltage	Best DC Voltage	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								open voltage	Power
40 HD-3SS0.5-28-12-80	12V	20V-36V	80W	0.5m³/h	28m	0.75"	2m	<50V	≥150W
41 HD-3SS1.2-56-24-120	24V	30V-48V	120W	1.2m³/h	56m	0.75"	2m	<50V	≥250W
42 HD-3SS1.2-77-36-210	36V	30V-48V	210W	1.2m³/h	77m	0.75"	2m	<50V	≥300W
43 HD-3SS1.7-109-48-500	48V	60V-90V	500W	1.7m³/h	109m	0.75"	2m	<100V	≥600W
44 HD-3SS2.0-150-48-750	48V	60V-90V	750W	2.0m³/h	150m	0.75"	2m	<100V	≥1000W
45 HD-3SS2.0-150-72-750	72V	90V-120V	750W	2.0m³/h	150m	0.75"	2m	<150V	≥1000W

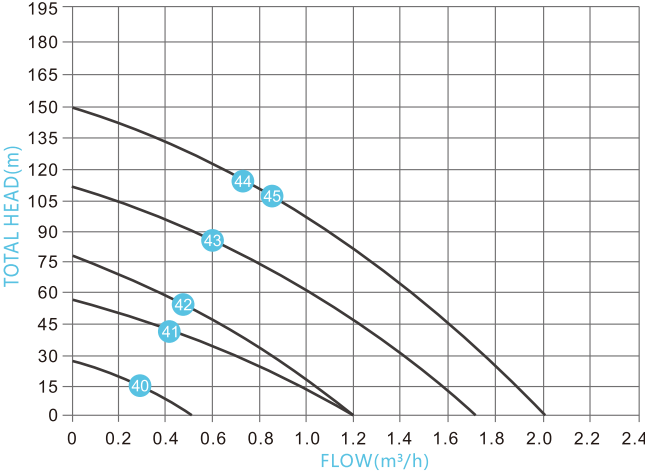
HD-4SS
BRUSHLESS SOLAR PUMP



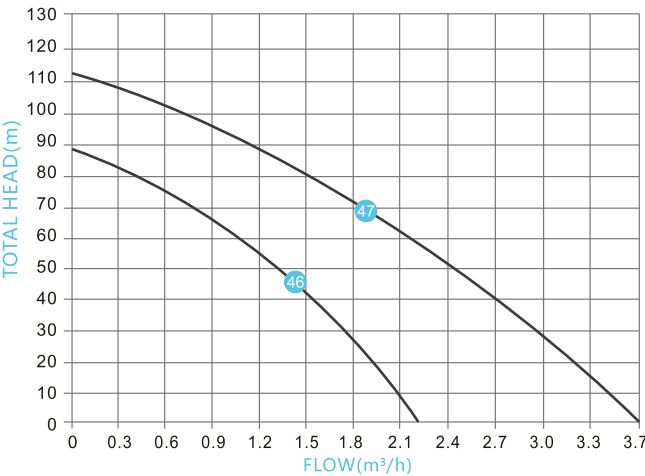
TECHNICAL DATA

ITEM	Voltage	Best DC Voltage	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								open voltage	Power
46 HD-4SS2.2-88-48-600	48V	60V-90V	600W	2.2m³/h	88m	1"	2m	<100V	≥750W
47 HD-4SS3.7-112-72-750	72V	90V-120V	750W	3.7m³/h	112m	1"	2m	<150V	≥1000W

PERFORMANCE CURVES



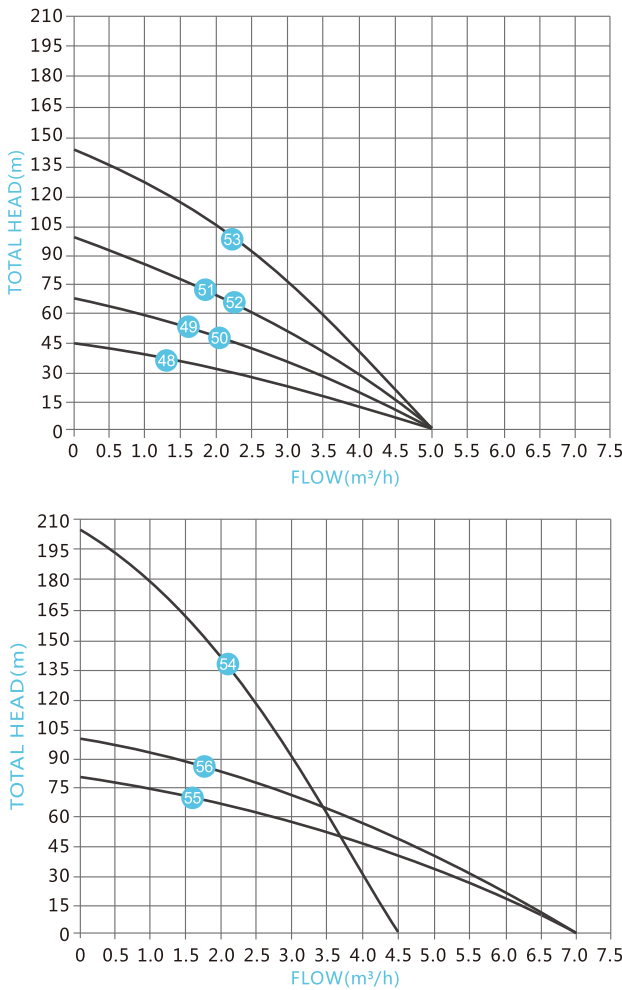
PERFORMANCE CURVES



HD-4SSC
BRUSHLESS SOLAR PUMP



PERFORMANCE CURVES



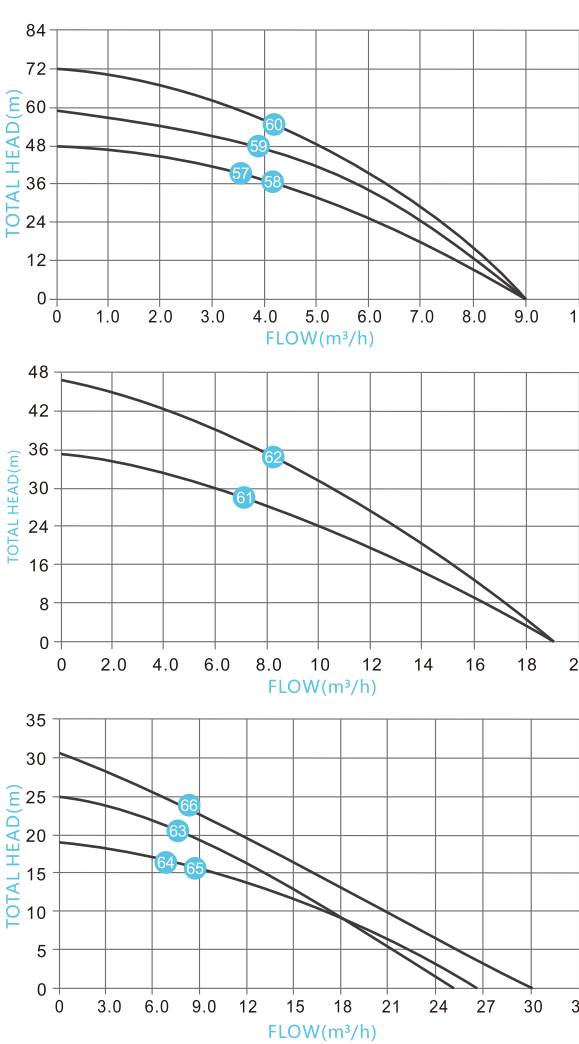
TECHNICAL DATA

ITEM	Voltage	Best DC Voltage	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								open voltage	Power
48	HD-4SSC5-45-48-500	48V	60V-90V	500W	5.0m³/h	45m	1.25"	2m	<100V ≥600W
49	HD-4SSC5-67-48-750	48V	60V-90V	750W	5.0m³/h	67m	1.25"	2m	<100V ≥1000W
50	HD-4SSC5-67-72-750	72V	90V-120V	750W	5.0m³/h	67m	1.25"	2m	<150V ≥1000W
51	HD-4SSC5-101-72-1100	72V	90V-120V	1100W	5.0m³/h	101m	1.25"	2m	<150V ≥1500W
52	HD-4SSC5-101-110-1100	110V	110V-150V	1100W	5.0m³/h	101m	1.25"	2m	<200V ≥1500W
53	HD-4SSC5-146-110-1300	110V	110V-150V	1300W	5.0m³/h	146m	1.25"	2m	<200V ≥1800W
54	HD-4SSC4.5-203-110-1500	110V	110V-150V	1500W	4.5m³/h	203m	1.25"	2m	<200V ≥2000W
55	HD-4SSC7-80-110-1300	110V	110V-150V	1300W	7.0m³/h	80m	1.25"	2m	<200V ≥1800W
56	HD-4SSC7-100-110-1500	110V	110V-150V	1500W	7.0m³/h	100m	1.25"	2m	<200V ≥2000W

HD-4SSC
BRUSHLESS SOLAR PUMP



PERFORMANCE CURVES



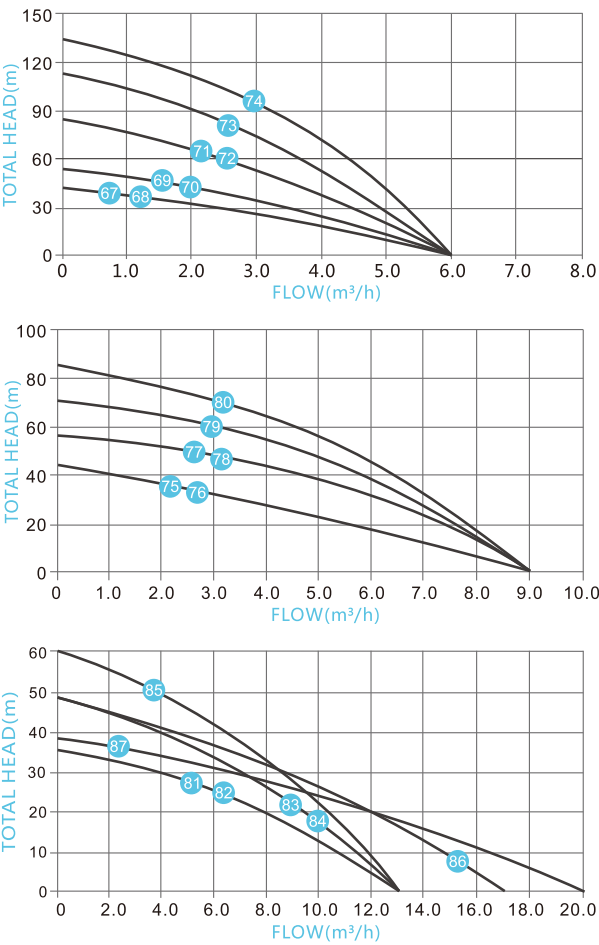
TECHNICAL DATA

ITEM	Voltage	Best DC Voltage	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								open voltage	Power
57	HD-4SSC9-48-72-750	72V	90V-120V	750W	9m³/h	48m	2"	2m	<150V ≥1000W
58	HD-4SSC9-48-110-750	110V	110V-150V	750W	9m³/h	48m	2"	2m	<200V ≥1000W
59	HD-4SSC9-59-110-1300	110V	110V-150V	1300W	9m³/h	59m	2"	2m	<200V ≥1800W
60	HD-4SSC9-72-110-1500	110V	110V-150V	1500W	9m³/h	72m	2"	2m	<200V ≥2000W
61	HD-4SSC19-35-110-1300	110V	110V-150V	1300W	19m³/h	35m	2"	2m	<200V ≥1800W
62	HD-4SSC19-46-110-1500	110V	110V-150V	1500W	19m³/h	46m	2"	2m	<200V ≥2000W
63	HD-4SSC25-25-110-1500	110V	110V-150V	1500W	25m³/h	25m	2"	2m	<200V ≥2000W
64	HD-4/6SSC26-18-72-1100	72V	90V-120V	1100W	26m³/h	18m	2"	2m	<150V ≥1500W
65	HD-4/6SSC26-18-110-1100	110V	110V-150V	1100W	26m³/h	18m	2"	2m	<200V ≥1500W
66	HD-4/6SSC30-31-110-1500	110V	110V-150V	1500W	30m³/h	31m	2"	2m	<200V ≥2000W

HD-4SC
BRUSHLESS SOLAR PUMP



PERFORMANCE CURVES



TECHNICAL DATA

ITEM	Voltage	Best DC Voltage	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								open voltage	Power
67 HD-4SC6-42-48-600	48V	60V-90V	600W	6.0m³/h	42m	1.25"	2m	<100V	≥750w
68 HD-4SC6-42-72-600	72V	90V-120V	600W	6.0m³/h	42m	1.25"	2m	<150V	≥750w
69 HD-4SC6-56-48-750	48V	60V-90V	750W	6.0m³/h	56m	1.25"	2m	<100V	≥1000w
70 HD-4SC6-56-72-750	72V	90V-120V	750W	6.0m³/h	56m	1.25"	2m	<150V	≥1000w
71 HD-4SC6-84-72-1100	72V	90V-120V	1100W	6.0m³/h	84m	1.25"/1.5"	2m	<150V	≥1500w
72 HD-4SC6-84-110-1100	110V	110V-150V	1100W	6.0m³/h	84m	1.25"/1.5"	2m	<200V	≥1500w
73 HD-4SC6-112-110-1300	110V	110V-150V	1300W	6.0m³/h	112m	1.25"/1.5"	2m	<200V	≥1800w
74 HD-4SC6-135-110-1500	110V	110V-150V	1500W	6.0m³/h	135m	1.25"/1.5"	2m	<200V	≥2000w
75 HD-4SC9-45-72-750	72V	90V-120V	750W	9.0m³/h	45m	2"	2m	<150V	≥1000W
76 HD-4SC9-45-110-750	110V	110V-150V	750W	9.0m³/h	45m	2"	2m	<200V	≥1000W
77 HD-4SC9-58-72-1100	72V	90V-120V	1100W	9.0m³/h	58m	2"	2m	<150V	≥1500W
78 HD-4SC9-58-110-1100	110V	110V-150V	1100W	9.0m³/h	58m	2"	2m	<200V	≥1500W
79 HD-4SC9-71-110-1300	110V	110V-150V	1300W	9.0m³/h	71m	2"	2m	<200V	≥1800W
80 HD-4SC9-85-110-1500	110V	110V-150V	1500W	9.0m³/h	85m	2"	2m	<200V	≥2000W
81 HD-4SC13-36-72-750	72V	90V-120V	750W	13.0m³/h	36m	2"	2m	<150V	≥1000W
82 HD-4SC13-36-110-750	110V	110V-150V	750W	13.0m³/h	36m	2"	2m	<200V	≥1000W
83 HD-4SC13-48-72-1100	72V	90V-120V	1100W	13.0m³/h	48m	2"	2m	<150V	≥1500W
84 HD-4SC13-48-110-1100	110V	110V-150V	1100W	13.0m³/h	48m	2"	2m	<200V	≥1500W
85 HD-4SC13-60-110-1500	110V	110V-150V	1500W	13.0m³/h	60m	2"	2m	<200V	≥2000W
86 HD-4SC17-48-110-1500	110V	110V-150V	1500W	17.0m³/h	48m	2"	2m	<200V	≥2000W
87 HD-4SC20-38-110-1500	110V	110V-150V	1500W	20.0m³/h	38m	2"	2m	<200V	≥2000W

HD-3SSC-A/D (80V-400V)
BRUSHLESS SOLAR PUMP



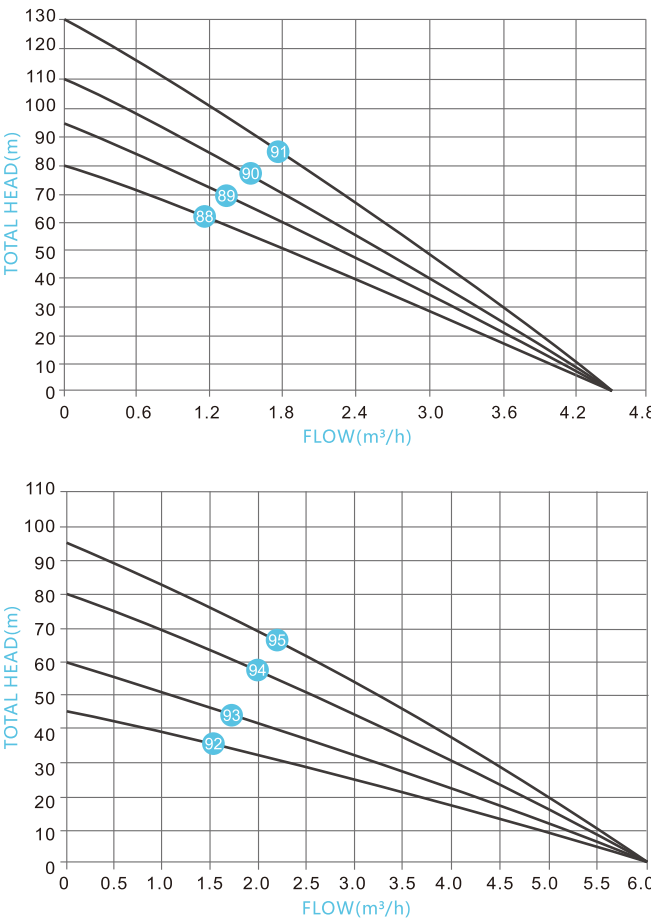
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- 4. With MPPT function
- 5. Much longer life than the normal AC water pump

APPLICATION FIELD

- These water pumps are used in irrigation of agriculture, also widely used for drinking water and living water use

PERFORMANCE CURVES



TECHNICAL DATA

ITEM	AC Voltage	DC Voltage	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								open voltage	Power
88 HD-3SSC4.5-80-72-600-A/D	110V-240V	80V-400V	600W	4.5m³/h	80m	1.25"	2m	<420V	≥750W
89 HD-3SSC4.5-95-72-750-A/D	110V-240V	80V-400V	750W	4.5m³/h	95m	1.25"	2m	<420V	≥1000W
90 HD-3SSC4.5-110-110-1100-A/D	110V-240V	80V-400V	1100W	4.5m³/h	110m	1.25"	2m	<420V	≥1500W
91 HD-3SSC4.5-130-110-1500-A/D	110V-240V	80V-400V	1500W	4.5m³/h	130m	1.25"	2m	<420V	≥2000W
92 HD-3SSC6-44-72-600-A/D	110V-240V	80V-400V	600W	6m³/h	44m	1.25"	2m	<420V	≥750W
93 HD-3SSC6-60-72-750-A/D	110V-240V	80V-400V	750W	6m³/h	60m	1.25"	2m	<420V	≥1000W
94 HD-3SSC6-80-110-1100-A/D	110V-240V	80V-400V	1100W	6m³/h	80m	1.25"	2m	<420V	≥1500W
95 HD-3SSC6-95-110-1500-A/D	110V-240V	80V-400V	1500W	6m³/h	95m	1.25"	2m	<420V	≥2000W