

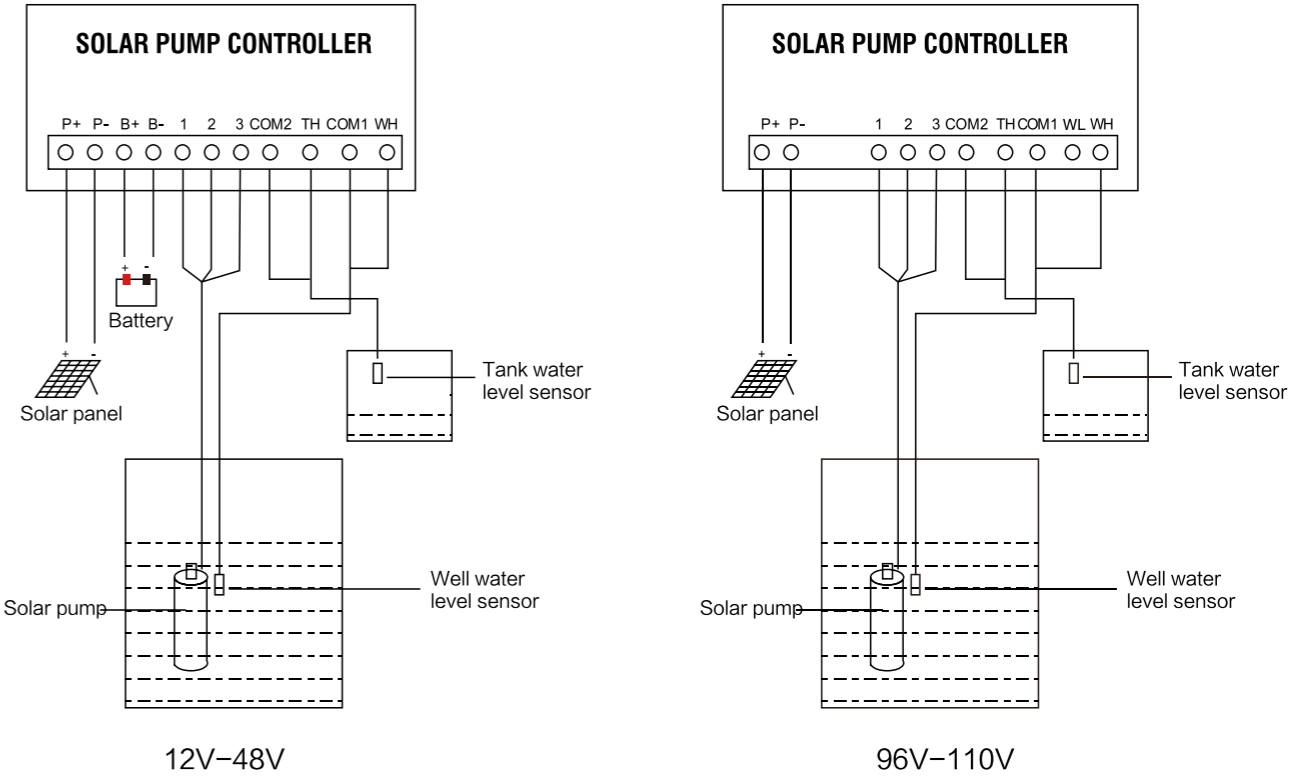
THE SELECTION OF SOLAR PANELS FOR SOLAR PUMPS(RECOMMENDED)

PUMP POWER (w)	SOLAR PANEL (w)	SOLAR PANEL QUANTITY	PEAK VOLTAGE VMP (v)	OPEN CIRCUIT VOLTAGE VOC (v)	PANEL CONNECTION
80	110	110W*1	17-18	21-22	
120	160	80W*2	17-18	21-22	2 Pieces in series connection directly
210	270	90W*3	17-18	21-22	3 Pieces in series connection directly
500	680	85W*8	17-18	21-22	each 4 Pieces in series connection, 2 groups in parallel connection
1000 (screw pump)	1400	100W*14	17-18	21-22	each 7 Pieces in series connection, 2 groups in parallel connection
1000 (plastic impeller & S/S impeller)	1600	100W*16	17-18	21-22	each 8 Pieces in series connection, 2 groups in parallel connection
1500	2300	230*10	30.5	36.8	each 5 Pieces in series connection, 2 groups in parallel connection
2200	3500	250*14	35	43	each 7 Pieces in series connection, 2 groups in parallel connection
3000	4500	250*18	35	43	each 9 Pieces in series connection, 2 groups in parallel connection

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PUMP VOLTAGE (v)	SOLAR PANEL (w)	PEAK VOLTAGE VMP(v)	OPEN CIRCUIT VOLTAGE VOC(v)
12V	≥ 1.3XPUMP POWER	≥ 15	<50
24V	≥ 1.3XPUMP POWER	≥ 30	<50
36V	≥ 1.3XPUMP POWER	≥ 45	<100
48V	≥ 1.3XPUMP POWER	≥ 60	<100
110V	≥ 1.5XPUMP POWER	≥ 112	<200
150V	≥ 1.5XPUMP POWER	≥ 150	<250
220V	≥ 1.5XPUMP POWER	≥ 220	<350
300V	≥ 1.5XPUMP POWER	≥ 300	<450

The performance information on catalogue is the ex-works testing result for your reference.  
The exact performance depends on actual situation like sunshine condition /solar panel specification/solar panel efficiency, etc...the performance difference is allowed.



**WARNING**

- 1.After the pump works 2minutes, the controller will automatically self-test about 30 seconds, and then the pump will restart, this is normal situation.
- 2.Note: If you want the battery fully charged, please choose the battery mode"II" and let the pump stop running at the same time. (There are 2 conditions that the pump will stop as following: 1>The tank was full. 2>Disconnect COM1 & WH terminal.)

**WARNING** The limited range for open circuit voltage of solar panel:

MODEL	RATED VOLTAGE	MAX OPEN CIRCUIT VOLTAGE	BATTERY	MAX LOADED CURRENT(A)
A	17.5V	30V	12V	12
B	24V	50V	24V	12
C	36V	80V	36V	12
D	48V	100V	48V	12