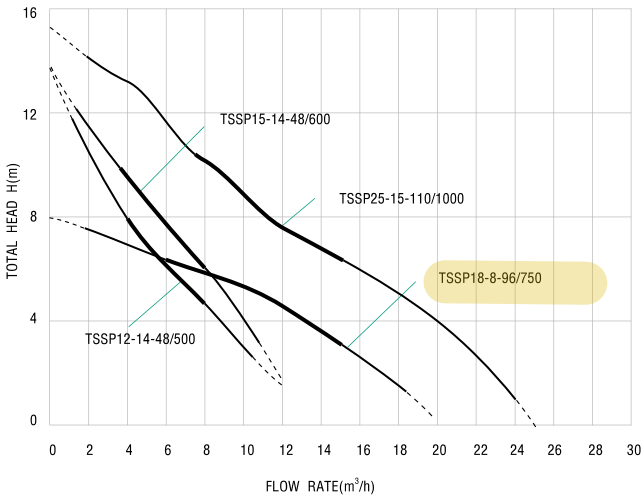




BUILT-IN CONTROLLER

- Suction / max. positive inlet lift: 8.0 m
- Max. Casing pressure: 2.5 bar
- Max. Water temperature:+60°C

Performance Curve



TSQB
Stainless steel pump body



24V/36V/48V Controller

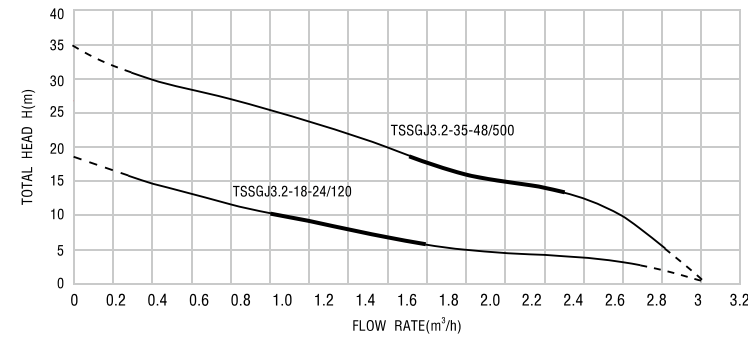
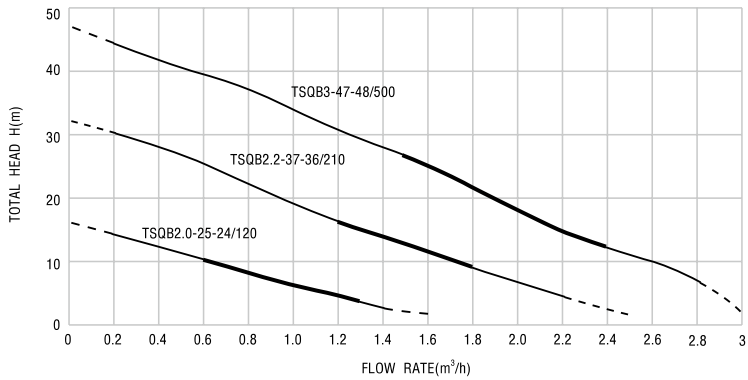


TSSGJ
Stainless steel pump body



24V/48V Controller

Performance Curve



Performance Chart

Type	Q (m³/h)	0	4	8	12	16	20	24
TSSP12-14-48/500	H(m)	14	8	5	2			
TSSP15-14-48/600		14	10	6	2			
TSSP18-8-96/750		8	7	6	5	3	2	
TSSP25-15-110/1000		15	13	10	8	6	4	1

Pump Performance

Type	Voltage (v)	Power (w)	Max Flow Rate (m³/h)	Max Head (m)	Inlet/Outlet (In)
TSSP12-14-48/500	48	500	12	14	2"X2"
TSSP15-14-48/600	48	600	15	14	2"X2"
TSSP18-8-96/750	96	750	18	8	3"X3"
TSSP25-15-110/1000	110	1000	25	15	3"X3"

Performance Chart

Type	Q (m³/h)	0	0.4	0.8	1.2	1.6	2.0	2.4	2.8	3.2
TSQB2.0-25-24/120	H(m)	15	12	8	2					
TSQB2.2-37-36/210		32	28	22	12	7	3			
TSQB3-47-48/500		46	41	37	25	18	12			
TSSGJ3.2-18-24/120		18	14	12	9	7	5	4	3	2
TSSGJ3.2-35-48/500		35	30	27	23	20	16	14	10	2

Pump Performance

Type	Voltage (v)	Power (w)	Max Flow Rate (m³/h)	Max Head (m)	Inlet/Outlet (In)
TSQB2.0-25-24/120	24	120	2.0	15	1" X 1"
TSQB2.2-37-36/210	36	210	2.5	32	1" X 1"
TSQB3-47-48/500	48	500	3.3	46	1" X 1"
TSSGJ3.2-18-24/120	24	120	3.2	18	1" X 1"
TSSGJ3.2-35-48/500	48	500	3.2	35	1" X 1"

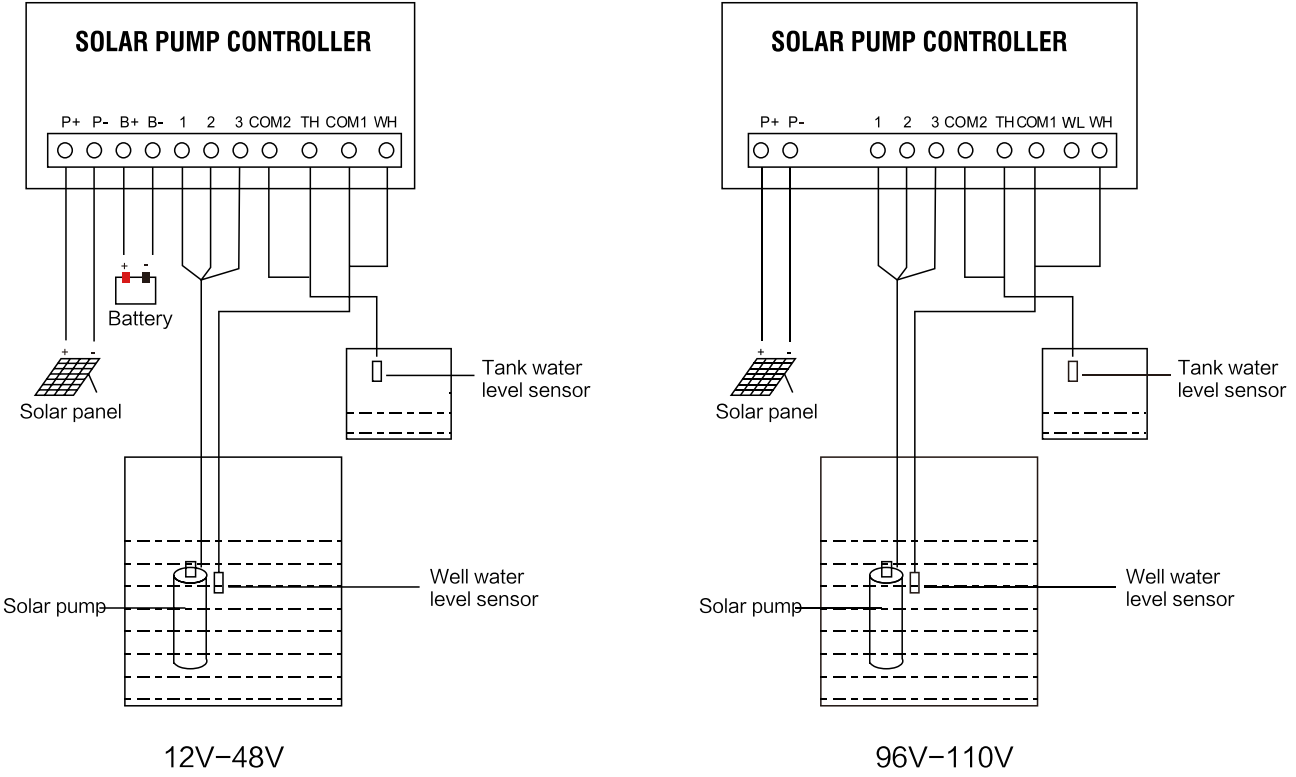
THE SELECTION OF SOLAR PANELS FOR SOLAR PUMPS(RECOMMENDED)

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

THE SELECTION OF SOLAR PANELS FOR SOLAR PUMPS

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