

# SOLAR PUMP



## SSCO DC MPPT CONTROLLER

# 2023

PRODUCT CATALOG

CE © ISO9001





# COMPANY PROFILE

Zhejiang Rambo Intelligent Technology Co., Ltd.(ZRI Co.,Ltd) Is the leading manufacturer and exporter of water pumps in China, located in Daxi Industrial Zone, Wenling, Zhejiang province.

With over 20 years experience and efforts, our products has diversified into wide range of selections to meet customers' Needs which include Solar pumps, Submersible pumps, Deep well pumps, and Land domestic pumps, etc. While our latest Energy-saving products--Solar pumps have developed rapidly and got a great success during recent years. After several years' Development, ZRI' S network has been spread to about 80 countries and regions around the world. We have become the long-term supplier of world-class retailer

Besides the IATF quality control system, ZRI has a group of professional technical engineers and a strong R&D team. Our engineers are able to provide expert technical support with the most efficient and cost effective solutions. The R&D team satisfies customers with specialized design and develops new products according to market demand.

ZRI has good cooperative relationships with some noted universities and institutes, and also famous manufacturers in Europe. It greatly strengthens ZRI' S R&D ability.

To do the best pump from China is ZRI' S purpose



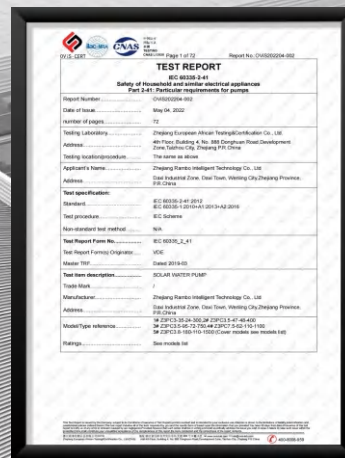
ISO 9001-2015



CE



IEC 60335-2-41



BV Certificate



BELIEVE IN THE  
POWER OF BRAND

# Catalog

## **SSCO / ZSCO DC MPPT CONTROLLER SOLAR WATER PUMP**

### **S01 - S27**

|        |        |
|--------|--------|
| S3SS   | S3SW   |
| S4SS   | S4SW   |
| S3HS   | S4/6SW |
| S4HS   | SSQD   |
| S3PC   | SSQB   |
| S4PC   | SSSP   |
| S3SC   | SSHF   |
| S4SC   |        |
| S4/6SC |        |

## **ZSCO\_ADHY AC/DC SWITCHING CONTROLLER SOLAR WATER PUMP**

### **H01 - H23**

|              |              |
|--------------|--------------|
| Z3PC-A/DHY   | Z3SW-A/DHY   |
| S4PC-A/DHY   | Z4SW-A/DHY   |
| S3SC-A/DHY   | Z4/6SW-A/DHY |
| S4SC-A/DHY   | ZSSP-A/DHY   |
| S4/6SC-A/DHY | ZSHF-A/DHY   |



Large Flow  
Gao Yangcheng



All-copper motor coil



Low noise



High efficiency  
and energy saving



Super durability



## **ZSCO\_ADCP AC/DC COMPLEMENTARY CONTROLLER SOLAR WATER PUMP**

### **C01 - C20**

Z3PC-A/DCP    Z3SW-A/DCP  
S4PC-A/DCP    Z4SW-A/DCP  
S3SC-A/DCP    Z4/6SW-A/DCP  
S4SC-A/DCP    ZSHF-A/DCP  
S4/6SC-A/DCP    ZSSP-A/DCP

## **HUGE POWER SOLAR PUMP INVERTER**

### **V01 - V07**

ZFPV 500

## **SOLAR PANEL RECOMMENDATION**

### **V08 - V12**



# SOLAR PUMPING SYSTEM

Solar pumping system mainly consists of PV modules, solar pumping controller / inverter and water pumps, Solar panels convert sunlight to electrical energy which is passed to the solar pump controller, The solar controller stabilizes the voltage and output power to drive the pump motor, Even on cloudy days, it can pump 10% water flow per day. Sensors are also connected to the controller to protect the pump from running dry as well as to automatically stop the pump working when the tank is full.

Solar panel collects sunlight

- DC electricity energy
- solar controller (rectification, stabilization, amplification, filtering)
- available DC electricity
- (charge the batteries)
- pumping water



Desertification Control



Water Supply



Animal Husbandry



Seawater



ESCO Economical  
Mppt Controller



SSCO DC  
Mppt Controller



ZSCO DC  
Mppt Controller



ZSCO\_ADHY AC/DC  
Hybrid Mppt Controller



ZSCO\_ADSW AC/DC  
Hybrid Mppt Controller



ZSCO\_ADCP AC/DC  
Hybrid Mppt Controller



ZFPV500  
Solar Pump Inverter



ZFPV150  
Solar Pump Inverter

## ■ Solar Water Pump System Complete Set

1. Solar pump with 5m cable, longer cable is available if required
2. MPPT & DSP Controller
3. Water level sensor or float switch
4. Other Accessories: Outlet / MC4 PV Cable Connector / PTFE Tape / Electric tape / screwdriver / Pipe hoop / Water pipe connector
5. Nylon Rope to hang the pump
6. Screw or Impeller for replace
7. Installation Manual
8. Solar panels are option



Desalination



Landscape Fountain



# APPLICATION FOR SOLAR PUMPING SYSTEM



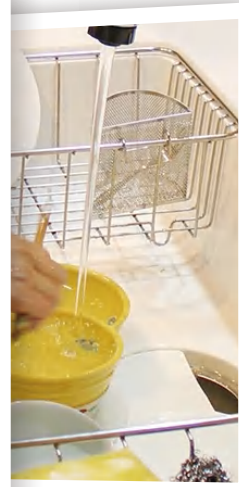
Irrigation



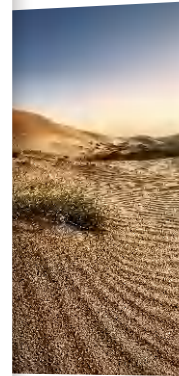
Stock farming



Fountain



Drinking water



Ecological  
management



## APPLICATION



GARDENING



IRRIGATION



WASHING



SHALLOW  
WELL



30-  
140m  
HIGHLIFT



HOME SWIMMING  
POOL

For water supply from wells or reservoirs

For domestic use, for civil and industrial applications

For garden use and irrigation

# SSCO/ZSCO DC

## MPPT CONTROLLER SOLAR PUMP SERIES

[www.zripump.com](http://www.zripump.com)



Large Flow  
Gao Yangcheng



All-copper motor coil



Low noise



High efficiency  
and energy saving



Super durability



# SSCO DC MPPT CONTROLLER

## APPLICATION



GARDENING



IRRIGATION



WASHING



SHALLOW  
WELL



HIGHLIFT



HOME SWIMMING  
POOL

For water supply from wells or reservoirs

For domestic use, for civil and industrial applications

For garden use and irrigation



## SSCO CONTROLLER PERFORMANCE DATA

| Item                      |                      | SSCO_YDC24   | SSCO_YDC48   | SSCO_YDC72   | SSCO_YDC96   | SSCO_YDC11   | SSCO_YDC15   | SSCO_YDC20   | SSCO_YDC30   |
|---------------------------|----------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Rated Voltage             |                      | 24V DC       | 48V DC       | 72V DC       | 96V DC       | 110V DC      | 150V DC      | 200 VDC      | 300 VDC      |
| Rated Current             |                      | 15A          | 15A          | 15A          | 15A          | 15A          | 12A          | 12A          | 12A          |
| Biggest open voltage(VOC) |                      | 80V DC       | 150V DC      | 200V DC      | 200V DC      | 250V DC      | 300V DC      | 350V DC      | 400V DC      |
| Max Power                 |                      | 600W         | 900W         | 1300W        | 1600W        | 1800W        | 1600W        | 1800W        | 2500W        |
| Voltage                   | Under Voltage        | 18.0±0.2VDC  | 30.0±0.2VDC  | 50.0±0.2VDC  | 60.0±0.2VDC  | 70.0±0.2VDC  | 120.0±0.2VDC | 160.0±0.2VDC | 220.0±0.2VDC |
|                           | Best Working Voltage | 30±0.2VDC    | 60±0.2VDC    | 90±0.2VDC    | 110±0.2VDC   | 120±0.2VDC   | 150±0.2VDC   | 200±0.2VDC   | 300±0.2VDC   |
| Current                   | Overload             | 20A          | 20A          | 20A          | 20A          | 20A          | 15A          | 15A          | 15A          |
|                           | Over current         | 25A          | 25A          | 25A          | 25A          | 25A          | 20A          | 20A          | 20A          |
| Dimension                 |                      | 220*200*90mm | 220*200*90mm | 220*200*90mm | 220*200*90mm | 220*200*90mm | 220*200*90mm | 220*200*90mm | 220*200*90mm |
| Weight                    |                      | 2.10kg       | 2.10kg       | 2.10kg       | 2.10kg       | 2.10kg       | 2.10kg       | 2.10kg       | 2.10kg       |
| Ambient Temperature       |                      | -20℃+50℃     | -20℃+50℃     | -20℃+50℃     | -20℃+50℃     | -20℃+50℃     | -20℃+50℃     | -20℃+50℃     | -20℃+50℃     |
| Adaptive Solar Panel      | Peak Voltage         | 29.8VDC      | 29.8VDC      | 35.6VDC      | 35.6VDC      | 35.6VDC      | 35.6VDC      | 35.6VDC      | 35.6VDC      |
|                           | Open-circuit Voltage | 36.9VDC      | 36.9VDC      | 43.5VDC      | 43.5VDC      | 43.5VDC      | 43.5VDC      | 43.5VDC      | 43.5VDC      |



## S3SS Solar Submersible Pump Series

**01****Outlet**

0.75 inch,  
Stainless Steel AISI 304SS/316SS

**02****Inlet**

Stainless Steel  
AISI 304SS/316SS

**03****Bottom support**

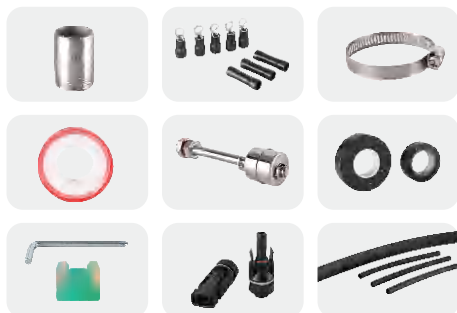
Stainless Steel  
AISI 304SS/316SS



### ADVANCED TECHNOLOGY

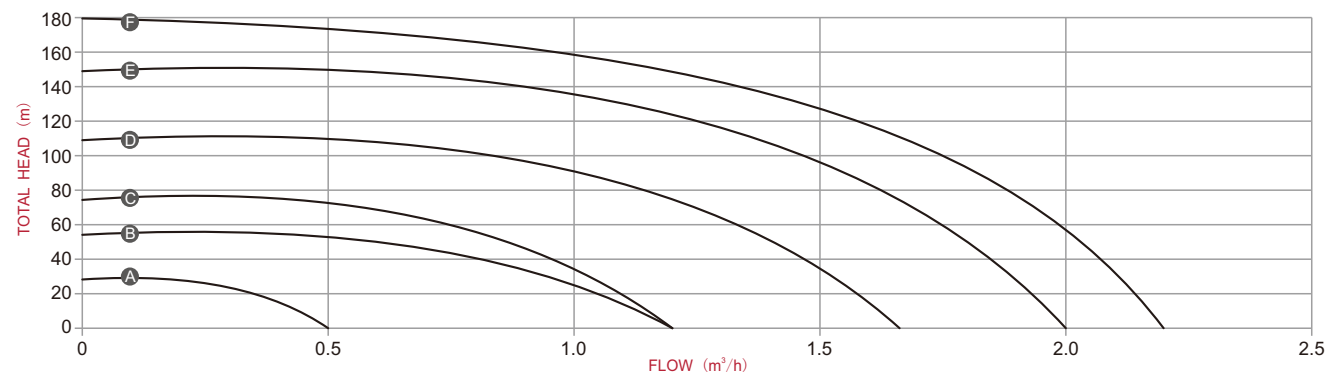


### FREE SPARE PARTS



Maintenance-Free Brushless DC Motor  
Integrated DSP & MPPT(Maximum Power Point remote control etc.)  
Suitable for Wide DC voltage Operation  
Control inputs for well probe,dry running protection  
Battery Operation,low voltage disconnect for battery Tracking)  
Overload and high Adjustable speed control of motor  
Temperature Protection and against reverse polarity

### PERFORMANCE CURVES AND DATA



| No. | ITEM                      | Voltage   | Optimum input voltage(DC) | Power | Max. Flow | Max. Head | Outlet | Cable | Solar panel                |                 |
|-----|---------------------------|-----------|---------------------------|-------|-----------|-----------|--------|-------|----------------------------|-----------------|
|     |                           |           |                           |       |           |           |        |       | Open circuit voltage (VOC) | Power           |
| A   | S3SS0.5-28-12-80          | 12V       | 20-36V                    | 80W   | 0.5m³/h   | 28m       | 0.75"  | 2m    | <50V                       | ≥1.3*PUMP POWER |
| B   | S3SS1.2-56-24-120         | 24V       | 30-48V                    | 120W  | 1.2m³/h   | 56m       | 0.75"  | 2m    | <50V                       | ≥1.3*PUMP POWER |
| C   | S3SS1.2-77-36-210         | 36V       | 30-48V                    | 210W  | 1.2m³/h   | 77m       | 0.75"  | 2m    | <50V                       | ≥1.3*PUMP POWER |
| D   | S3SS1.7-109-48(72)-500    | 48(72)V   | 60-90V<br>(72-120V)       | 500W  | 1.7m³/h   | 109m      | 0.75"  | 2m    | <100(150)V                 | ≥1.3*PUMP POWER |
| E   | S3SS2.0-150-72(96)-750    | 72(96)V   | 90-120V<br>(110-150V)     | 750W  | 2.0m³/h   | 150m      | 0.75"  | 2m    | <150(200)V                 | ≥1.3*PUMP POWER |
| F   | S3SS2.2-180-110(150)-1100 | 110(150)V | 110-150V<br>(150-200V)    | 1100W | 2.2m³/h   | 180m      | 0.75"  | 2m    | <200(300)V                 | ≥1.3*PUMP POWER |



## S4SS Solar Submersible Pump Series



**01**  
**Outlet**  
1.0 inch,  
Stainless Steel AISI 304SS/316SS

**02**  
**Inlet**  
Stainless Steel  
AISI 304SS/316SS



**03**  
**Bottom support**  
Stainless Steel  
AISI 304SS/316SS

### ADVANCED TECHNOLOGY



Running Speed  
Control



Short-Circuit  
Protection



MPPT



Dry Running  
Protection



Soft Starting  
Protection



Reverse Voltage  
Protection



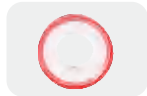
Low-voltage /  
Over-voltage  
Protection



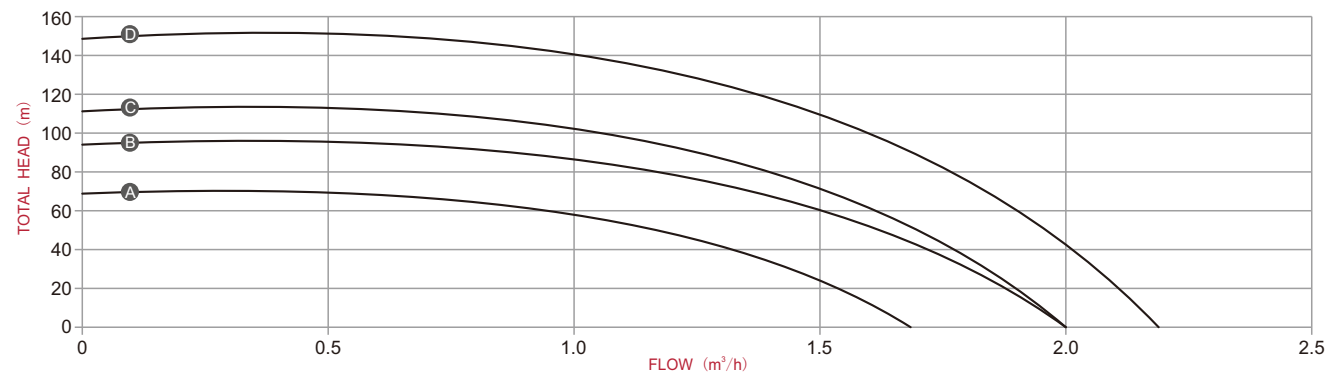
Over Current  
Protection



### FREE SPARE PARTS



### PERFORMANCE CURVES AND DATA



| No. | ITEM                      | Voltage   | Optimum input voltage(DC) | Power | Max. Flow | Max. Head | Outlet | Cable | Solar panel                |                 |
|-----|---------------------------|-----------|---------------------------|-------|-----------|-----------|--------|-------|----------------------------|-----------------|
|     |                           |           |                           |       |           |           |        |       | Open circuit voltage (VOC) | Power           |
| A   | S4SS1.7-70-48(72)-500     | 48(72)V   | 60-90V<br>(72-120V)       | 500W  | 1.7m³/h   | 70m       | 1"     | 2m    | <100(150)V                 | ≥1.3*PUMP POWER |
| B   | S4SS2.0-95-72(96)-750     | 72(96)V   | 90-120V<br>(110-150V)     | 750W  | 2.0m³/h   | 95m       | 1"     | 2m    | <150(200)V                 | ≥1.3*PUMP POWER |
| C   | S4SS2.0-110-110(150)-1100 | 110(150)V | 110-150V<br>(150-200V)    | 1100W | 2.0m³/h   | 110m      | 1"     | 2m    | <200(300)V                 | ≥1.3*PUMP POWER |
| D   | S4SS2.2-150-110(180)-1300 | 110(180)V | 110-150V<br>(180-250V)    | 1300W | 2.2m³/h   | 150m      | 1"     | 2m    | <200(350)V                 | ≥1.3*PUMP POWER |

Maintenance-Free Brushless DC Motor  
Integrated DSP & MPPT(Maximum Power Point remote control etc.)  
Suitable for Wide DC voltage Operation  
Control inputs for well probe,dry running protection  
Battery Operation,low voltage disconnect for battery Tracking)  
Overload and high Adjustable speed control of motor  
Temperature Protection and against reverse polarity

SOLAR  
**ZAI**

## S3HS Solar Submersible Pump Series



### ADVANCED TECHNOLOGY



**01**

**Outlet**

0.75 inch,  
Stainless Steel AISI 304SS/316SS

**02**

**Inlet**

Stainless Steel  
AISI 304SS/316SS



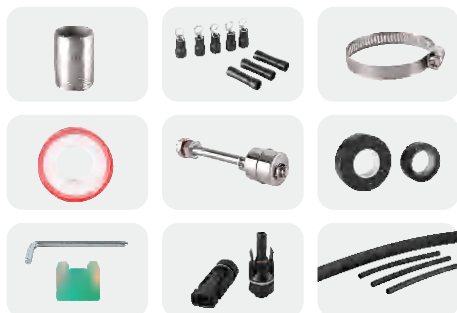
**03**

**Bottom support**

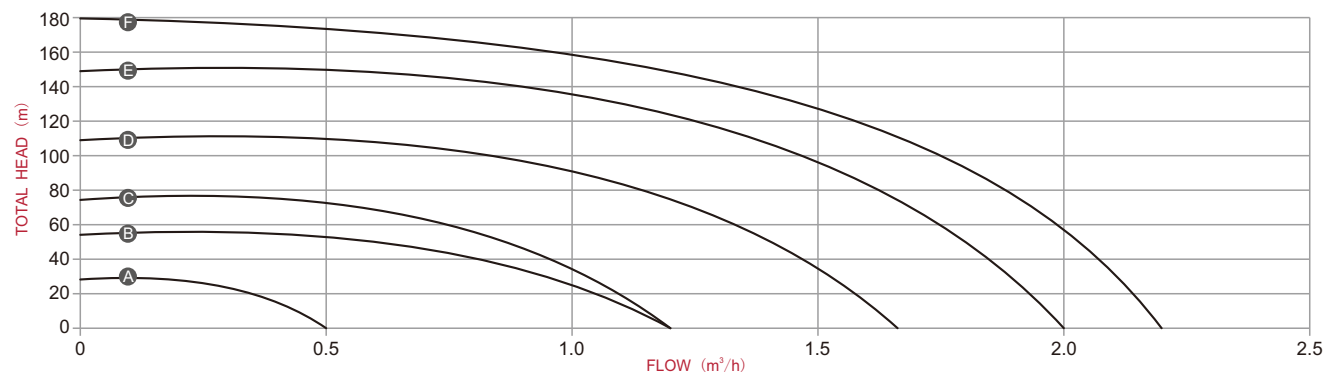
Stainless Steel  
AISI 304SS/316SS



### FREE SPARE PARTS



### PERFORMANCE CURVES AND DATA



| No. | ITEM                      | Voltage   | Optimum input voltage(DC) | Power | Max. Flow | Max. Head | Outlet | Cable | Solar panel                |                 |
|-----|---------------------------|-----------|---------------------------|-------|-----------|-----------|--------|-------|----------------------------|-----------------|
|     |                           |           |                           |       |           |           |        |       | Open circuit voltage (VOC) | Power           |
| A   | S3HS0.5-28-12-80          | 12V       | 20-36V                    | 80W   | 0.5m³/h   | 28m       | 0.75"  | 2m    | <50V                       | ≥1.3*PUMP POWER |
| B   | S3HS1.2-56-24-120         | 24V       | 30-48V                    | 120W  | 1.2m³/h   | 56m       | 0.75"  | 2m    | <50V                       | ≥1.3*PUMP POWER |
| C   | S3HS1.2-77-36-210         | 36V       | 30-48V                    | 210W  | 1.2m³/h   | 77m       | 0.75"  | 2m    | <50V                       | ≥1.3*PUMP POWER |
| D   | S3HS1.7-109-48(72)-500    | 48(72)V   | 60-90V<br>(72-120V)       | 500W  | 1.7m³/h   | 109m      | 0.75"  | 2m    | <100(150)V                 | ≥1.3*PUMP POWER |
| E   | S3HS2.0-150-72(96)-750    | 72(96)V   | 90-120V<br>(110-150V)     | 750W  | 2.0m³/h   | 150m      | 0.75"  | 2m    | <150(200)V                 | ≥1.3*PUMP POWER |
| F   | S3HS2.2-180-110(150)-1100 | 110(150)V | 110-150V<br>(150-200V)    | 1100W | 2.2m³/h   | 180m      | 0.75"  | 2m    | <200(300)V                 | ≥1.3*PUMP POWER |

Maintenance-Free Brushless DC Motor  
Integrated DSP & MPPT(Maximum Power Point remote control etc.)  
Suitable for Wide DC voltage Operation  
Control inputs for well probe,dry running protection  
Battery Operation,low voltage disconnect for battery Tracking)  
Overload and high Adjustable speed control of motor  
Temperature Protection and against reverse polarity

SOLAR  
**ZAI**

## S4HS Solar Submersible Pump Series



### ADVANCED TECHNOLOGY



**01**

**Outlet**

1.0 inch,  
Stainless Steel AISI 304SS/316SS

**02**

**Inlet**

Stainless Steel  
AISI 304SS/316SS

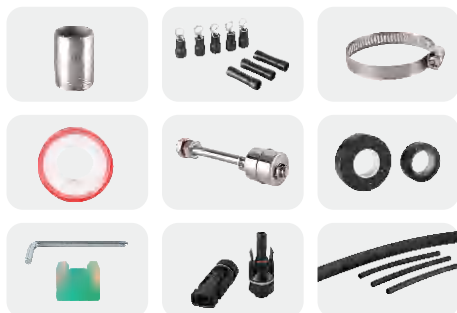
**03**

**Bottom support**

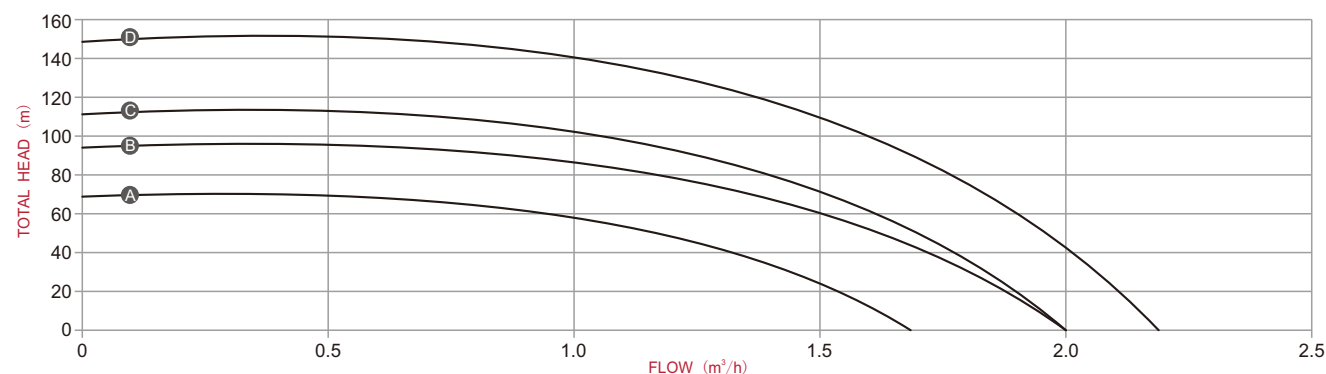
Stainless Steel  
AISI 304SS/316SS



### FREE SPARE PARTS



### PERFORMANCE CURVES AND DATA



| No. | ITEM                      | Voltage   | Optimum input voltage(DC) | Power | Max. Flow | Max. Head | Outlet | Cable | Solar panel                |                 |
|-----|---------------------------|-----------|---------------------------|-------|-----------|-----------|--------|-------|----------------------------|-----------------|
|     |                           |           |                           |       |           |           |        |       | Open circuit voltage (VOC) | Power           |
| A   | S4HS1.7-70-48(72)-500     | 48(72)V   | 60-90V<br>(72-120V)       | 500W  | 1.7m³/h   | 70m       | 1"     | 2m    | <100(150)V                 | ≥1.3*PUMP POWER |
| B   | S4HS2.0-95-72(96)-750     | 72(96)V   | 90-120V<br>(110-150V)     | 750W  | 2.0m³/h   | 95m       | 1"     | 2m    | <150(200)V                 | ≥1.3*PUMP POWER |
| C   | S4HS2.0-110-110(150)-1100 | 110(150)V | 110-150V<br>(150-200V)    | 1100W | 2.0m³/h   | 110m      | 1"     | 2m    | <200(300)V                 | ≥1.3*PUMP POWER |
| D   | S4HS2.2-150-110(180)-1300 | 110(180)V | 110-150V<br>(180-250V)    | 1300W | 2.2m³/h   | 150m      | 1"     | 2m    | <200(350)V                 | ≥1.3*PUMP POWER |

Maintenance-Free Brushless DC Motor  
Integrated DSP & MPPT(Maximum Power Point remote control etc.)  
Suitable for Wide DC voltage Operation  
Control inputs for well probe,dry running protection  
Battery Operation,low voltage disconnect for battery Tracking)  
Overload and high Adjustable speed control of motor  
Temperature Protection and against reverse polarity



## S3PC Solar Submersible Pump Series



**01**

### Outlet

1.25 / 1.5 inch,  
Stainless Steel AISI 304SS/316SS

**02**

### Inlet

Stainless Steel  
AISI 304SS/316SS

**03**

### Bottom support

Stainless Steel  
AISI 304SS/316SS

## ADVANCED TECHNOLOGY



Running Speed  
Control



Short-Circuit  
Protection



MPPT



Dry Running  
Protection



Soft Starting  
Protection



Reverse Voltage  
Protection



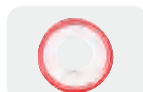
Low-voltage /  
Over-voltage  
Protection



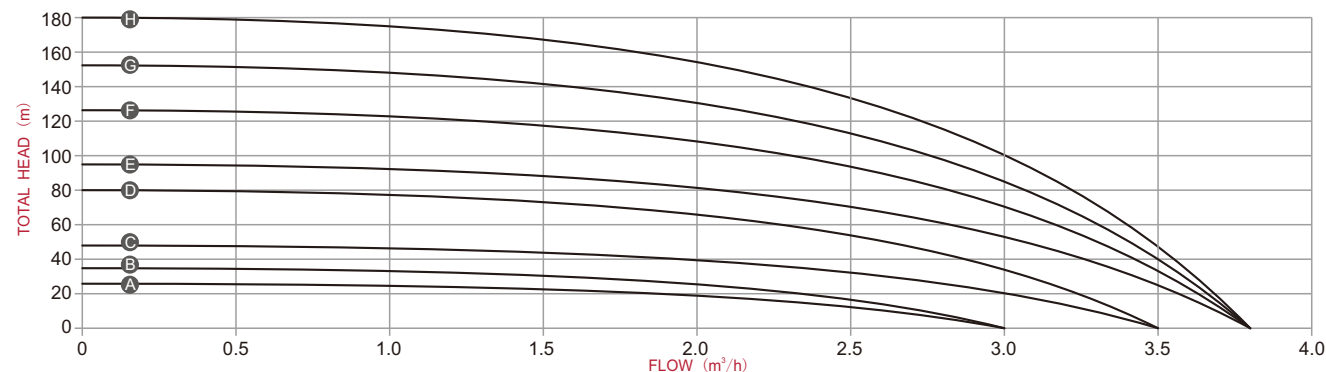
Over Current  
Protection



## FREE SPARE PARTS



## PERFORMANCE CURVES AND DATA



| No. | ITEM                      | Voltage   | Optimum input voltage(DC) | Power | Max. Flow | Max. Head | Outlet | Cable | Solar panel                |                 |
|-----|---------------------------|-----------|---------------------------|-------|-----------|-----------|--------|-------|----------------------------|-----------------|
|     |                           |           |                           |       |           |           |        |       | Open circuit voltage (VOC) | Power           |
| A   | S3PC3-25-24-200           | 24V       | 30-48V                    | 200W  | 3.0m³/h   | 25m       | 1.25"  | 2m    | <50V                       | ≥1.3*PUMP POWER |
| B   | S3PC3-35-24-300           | 24V       | 30-48V                    | 300W  | 3.0m³/h   | 35m       | 1.25"  | 2m    | <50V                       | ≥1.3*PUMP POWER |
| C   | S3PC3.5-47-48-400         | 48V       | 60-90V                    | 400W  | 3.5m³/h   | 47m       | 1.25"  | 2m    | <100V                      | ≥1.3*PUMP POWER |
| D   | S3PC3.5-80-48(72)-600     | 48(72)V   | 60-90V<br>(72-120V)       | 600W  | 3.5m³/h   | 80m       | 1.25"  | 2m    | <100(150)V                 | ≥1.3*PUMP POWER |
| E   | S3PC3.5-95-72(96)-750     | 72(96)V   | 90-120V<br>(110-150V)     | 750W  | 3.5m³/h   | 95m       | 1.25"  | 2m    | <150(200)V                 | ≥1.3*PUMP POWER |
| F   | S3PC3.8-123-110(150)-1100 | 110(150)V | 110-150V<br>(150-200V)    | 1100W | 3.8m³/h   | 123m      | 1.25"  | 2m    | <200(300)V                 | ≥1.3*PUMP POWER |
| G   | S3PC3.8-155-110(180)-1300 | 110(180)V | 110-150V<br>(180-250V)    | 1300W | 3.8m³/h   | 155m      | 1.25"  | 2m    | <200(350)V                 | ≥1.3*PUMP POWER |
| H   | S3PC3.8-180-110(200)-1500 | 110(200)V | 110-150V<br>(200-300V)    | 1500W | 3.8m³/h   | 180m      | 1.25"  | 2m    | <200(400)V                 | ≥1.3*PUMP POWER |

Maintenance-Free Brushless DC Motor  
Integrated DSP & MPPT(Maximum Power Point remote control etc.)  
Suitable for Wide DC voltage Operation  
Control inputs for well probe,dry running protection  
Battery Operation,low voltage disconnect for battery Tracking)  
Overload and high Adjustable speed control of motor  
Temperature Protection and against reverse polarity



## S3PC Solar Submersible Pump Series

### ADVANCED TECHNOLOGY



**01**

#### Outlet

1.25 / 1.5 inch,  
Stainless Steel AISI 304SS/316SS

**02**

#### Inlet

Stainless Steel  
AISI 304SS/316SS

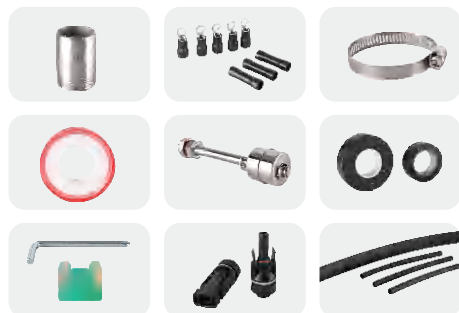
**03**

#### Bottom support

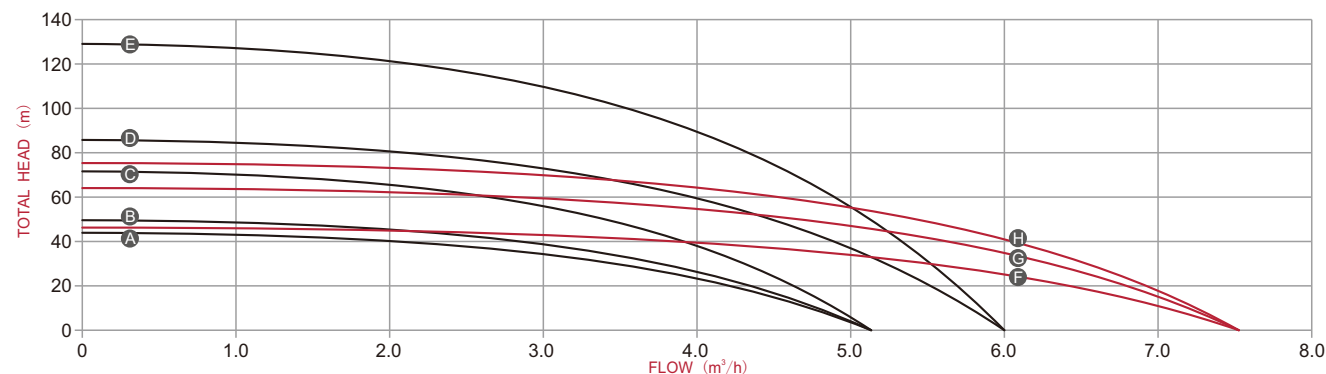
Stainless Steel  
AISI 304SS/316SS



### FREE SPARE PARTS



### PERFORMANCE CURVES AND DATA



| No. | ITEM                     | Voltage   | Optimum input voltage(DC) | Power | Max. Flow | Max. Head | Outlet | Cable | Solar panel                |                 |
|-----|--------------------------|-----------|---------------------------|-------|-----------|-----------|--------|-------|----------------------------|-----------------|
|     |                          |           |                           |       |           |           |        |       | Open circuit voltage (VOC) | Power           |
| A   | S3PC5.2-45-48(72)-500    | 48(72)V   | 60-90V<br>(72-120V)       | 500W  | 5.2m³/h   | 45m       | 1.5"   | 2m    | <100(150)V                 | ≥1.3*PUMP POWER |
| B   | S3PC5.2-50-48(72)-600    | 48(72)V   | 60-90V<br>(72-120V)       | 600W  | 5.2m³/h   | 50m       | 1.5"   | 2m    | <100(150)V                 | ≥1.3*PUMP POWER |
| C   | S3PC5.2-75-72(96)-750    | 72(96)V   | 90-120V<br>(110-150V)     | 750W  | 5.2m³/h   | 75m       | 1.5"   | 2m    | <150(200)V                 | ≥1.3*PUMP POWER |
| D   | S3PC6-84-110(150)-1100   | 110(150)V | 110-150V<br>(150-200V)    | 1100W | 6.0m³/h   | 84m       | 1.5"   | 2m    | <200(300)V                 | ≥1.3*PUMP POWER |
| E   | S3PC6-125-110(200)-1500  | 110(200)V | 110-150V<br>(200-300V)    | 1500W | 6.0m³/h   | 125m      | 1.5"   | 2m    | <200(400)V                 | ≥1.3*PUMP POWER |
| F   | S3PC7.5-43-72(96)-750    | 72(96)V   | 90-120V<br>(110-150V)     | 750W  | 7.5m³/h   | 43m       | 1.5"   | 2m    | <150(200)V                 | ≥1.3*PUMP POWER |
| G   | S3PC7.5-62-110(150)-1100 | 110(150)V | 110-150V<br>(150-200V)    | 1100W | 7.5m³/h   | 62m       | 1.5"   | 2m    | <200(300)V                 | ≥1.3*PUMP POWER |
| H   | S3PC7.5-78-110(200)-1500 | 110(200)V | 110-150V<br>(200-300V)    | 1500W | 7.5m³/h   | 78m       | 1.5"   | 2m    | <200(400)V                 | ≥1.3*PUMP POWER |

Maintenance-Free Brushless DC Motor  
Integrated DSP & MPPT(Maximum Power Point remote control etc.)  
Suitable for Wide DC voltage Operation  
Control inputs for well probe,dry running protection  
Battery Operation,low voltage disconnect for battery Tracking)  
Overload and high Adjustable speed control of motor  
Temperature Protection and against reverse polarity

SOLAR  
**ZAI**

## S4PC Solar Submersible Pump Series



**01**

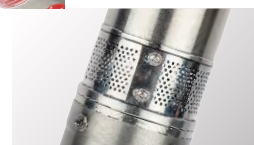
**Outlet**

1.25 / 1.5 / 2.0 inch,  
Stainless Steel AISI 304SS/316SS

**02**

**Inlet**

Stainless Steel  
AISI 304SS/316SS



**03**

**Bottom support**

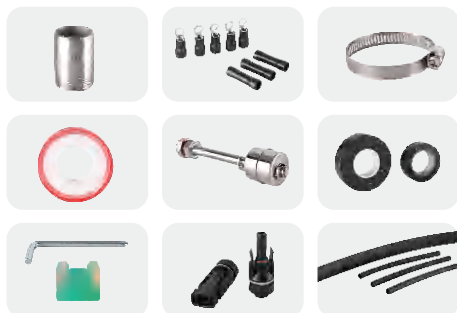
Stainless Steel  
AISI 304SS/316SS



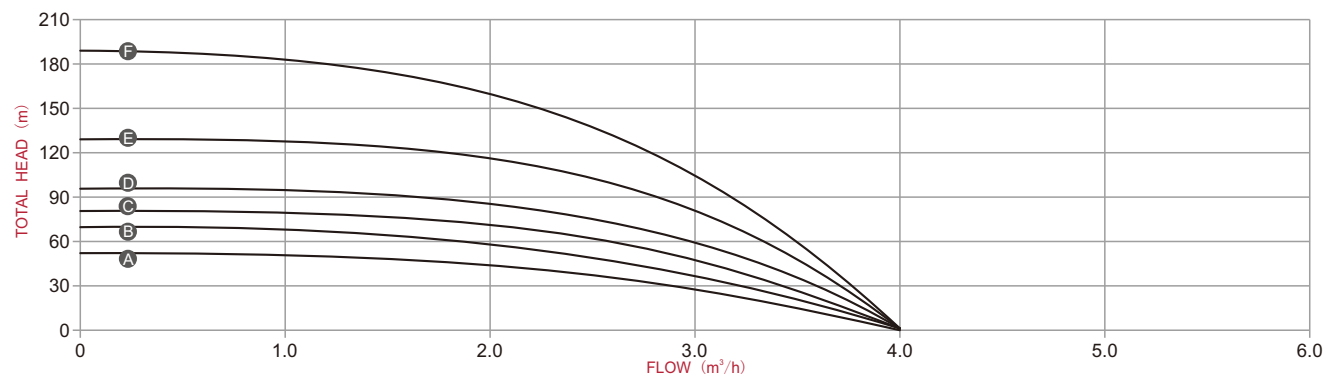
### ADVANCED TECHNOLOGY



### FREE SPARE PARTS



### PERFORMANCE CURVES AND DATA



| No. | ITEM                    | Voltage   | Optimum input voltage(DC) | Power | Max. Flow | Max. Head | Outlet | Cable | Solar panel                |                 |
|-----|-------------------------|-----------|---------------------------|-------|-----------|-----------|--------|-------|----------------------------|-----------------|
|     |                         |           |                           |       |           |           |        |       | Open circuit voltage (VOC) | Power           |
| A   | Z4PC4-50-48(72)-600     | 48(72)V   | 60-90V<br>(72-120V)       | 600W  | 4m³/h     | 50m       | 1.25"  | 2m    | <100(150)V                 | ≥1.3*PUMP POWER |
| B   | Z4PC4-70-72(96)-750     | 72(96)V   | 90-120V<br>(110-150V)     | 750W  | 4m³/h     | 70m       | 1.25"  | 2m    | <150(200)V                 | ≥1.3*PUMP POWER |
| C   | Z4PC4-80-96(120)-900    | 96(120)V  | 110-150V<br>(120-200V)    | 900W  | 4m³/h     | 80m       | 1.25"  | 2m    | <200(300)V                 | ≥1.3*PUMP POWER |
| D   | Z4PC4-95-110(150)-1100  | 110(150)V | 110-180V<br>(150-250V)    | 1100W | 4m³/h     | 95m       | 1.25"  | 2m    | <200(350)V                 | ≥1.3*PUMP POWER |
| E   | Z4PC4-130-110(200)-1500 | 110(200)V | 110-150V<br>(200-300V)    | 1500W | 4m³/h     | 130m      | 1.25"  | 2m    | <200(400)V                 | ≥1.3*PUMP POWER |
| F   | Z4PC4-190-300-2200      | 300V      | 300-420V                  | 2200W | 4m³/h     | 190m      | 1.25"  | 2m    | <450V                      | ≥1.3*PUMP POWER |

Maintenance-Free Brushless DC Motor  
Integrated DSP & MPPT(Maximum Power Point remote control etc.)  
Suitable for Wide DC voltage Operation  
Control inputs for well probe,dry running protection  
Battery Operation,low voltage disconnect for battery Tracking)  
Overload and high Adjustable speed control of motor  
Temperature Protection and against reverse polarity

SOLAR  
**ZAI**

## S4PC Solar Submersible Pump Series

### ADVANCED TECHNOLOGY



**01**

#### Outlet

1.25 / 1.5 / 2.0 inch,  
Stainless Steel AISI 304SS/316SS

**02**

#### Inlet

Stainless Steel  
AISI 304SS/316SS

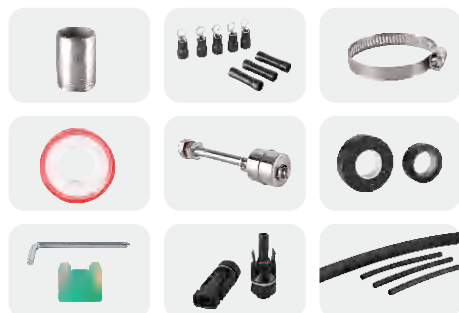
**03**

#### Bottom support

Stainless Steel  
AISI 304SS/316SS

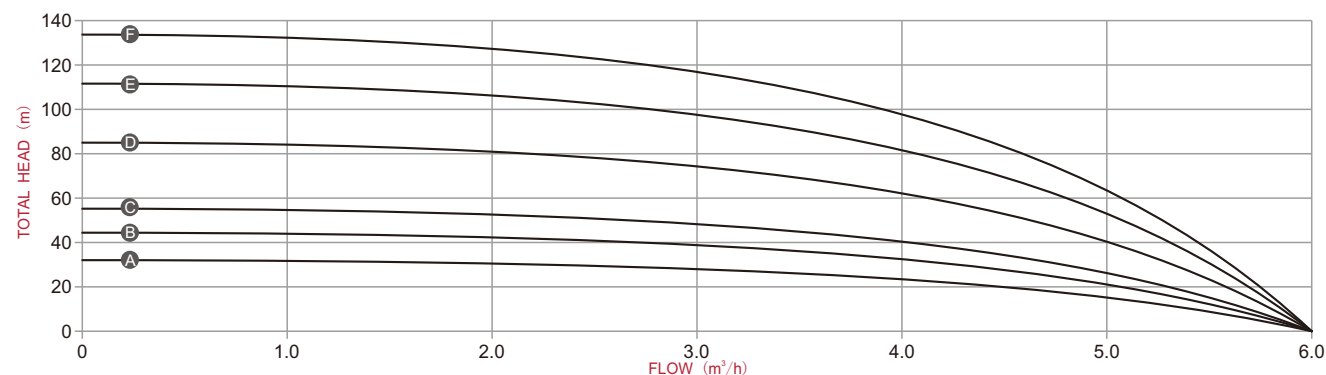


### FREE SPARE PARTS



Maintenance-Free Brushless DC Motor  
Integrated DSP & MPPT(Maximum Power Point remote control etc.)  
Suitable for Wide DC voltage Operation  
Control inputs for well probe,dry running protection  
Battery Operation,low voltage disconnect for battery Tracking)  
Overload and high Adjustable speed control of motor  
Temperature Protection and against reverse polarity

### PERFORMANCE CURVES AND DATA



| No. | ITEM                    | Voltage   | Optimum input voltage(DC) | Power | Max. Flow | Max. Head | Outlet | Cable | Solar panel                |                 |
|-----|-------------------------|-----------|---------------------------|-------|-----------|-----------|--------|-------|----------------------------|-----------------|
|     |                         |           |                           |       |           |           |        |       | Open circuit voltage (VOC) | Power           |
| A   | S4PC6-32-48-400         | 48V       | 60-90V                    | 400W  | 6.0m³/h   | 32m       | 1.25"  | 2m    | <100V                      | ≥1.3*PUMP POWER |
| B   | S4PC6-42-48(72)-600     | 48(72)V   | 60-90V<br>(72-120V)       | 600W  | 6.0m³/h   | 42m       | 1.25"  | 2m    | <100(150)V                 | ≥1.3*PUMP POWER |
| C   | S4PC6-56-72(96)-750     | 72(96)V   | 90-120V<br>(110-150V)     | 750W  | 6.0m³/h   | 56m       | 1.25"  | 2m    | <150(200)V                 | ≥1.3*PUMP POWER |
| D   | S4PC6-84-110(150)-1100  | 110(150)V | 110-150V<br>(150-200V)    | 1100W | 6.0m³/h   | 84m       | 1.25"  | 2m    | <200(300)V                 | ≥1.3*PUMP POWER |
| E   | S4PC6-112-110(180)-1300 | 110(180)V | 110-150V<br>(180-250V)    | 1300W | 6.0m³/h   | 112m      | 1.25"  | 2m    | <200(350)V                 | ≥1.3*PUMP POWER |
| F   | S4PC6-135-110(200)-1500 | 110(200)V | 110-150V<br>(200-300V)    | 1500W | 6.0m³/h   | 135m      | 1.25"  | 2m    | <200(400)V                 | ≥1.3*PUMP POWER |
| G   | S4PC6-175-300-2200      | 300V      | 300-420V                  | 2200W | 6.0m³/h   | 175m      | 1.25"  | 2m    | <450V                      | ≥1.3*PUMP POWER |

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## S4PC Solar Submersible Pump Series

### ADVANCED TECHNOLOGY



### FREE SPARE PARTS



Maintenance-Free Brushless DC Motor  
Integrated DSP & MPPT(Maximum Power Point remote control etc.  
Suitable for Wide DC voltage Operation  
Control inputs for well probe,dry running protection  
Battery Operation,low voltage disconnect for battery Tracking)  
Overload and high Adjustable speed control of motor  
Temperature Protection and against reverse polarity



**01**

#### Outlet

1.25 / 1.5 / 2.0 inch,  
Stainless Steel AISI 304SS/316SS

**02**

#### Inlet

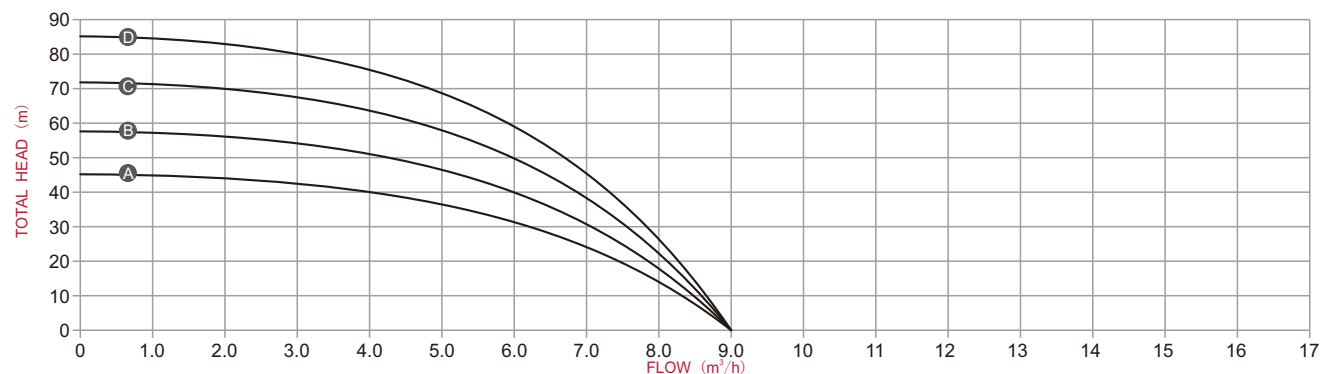
Stainless Steel  
AISI 304SS/316SS

**03**

#### Bottom support

Stainless Steel  
AISI 304SS/316SS

### PERFORMANCE CURVES AND DATA



| No. | ITEM                   | Voltage   | Optimum input voltage(DC) | Power | Max. Flow | Max. Head | Outlet | Cable | Solar panel                |                 |
|-----|------------------------|-----------|---------------------------|-------|-----------|-----------|--------|-------|----------------------------|-----------------|
|     |                        |           |                           |       |           |           |        |       | Open circuit voltage (VOC) | Power           |
| A   | S4PC9-45-96-750        | 96V       | 110-150V                  | 750W  | 9.0m³/h   | 45m       | 2"     | 2m    | <200V                      | ≥1.3*PUMP POWER |
| B   | S4PC9-58-110(150)-1100 | 110(150)V | 110-150V<br>(150-200V)    | 1100W | 9.0m³/h   | 58m       | 2"     | 2m    | <200(300)V                 | ≥1.3*PUMP POWER |
| C   | S4PC9-71-110(180)-1300 | 110(180)V | 110-150V<br>(180-250V)    | 1300W | 9.0m³/h   | 71m       | 2"     | 2m    | <200(350)V                 | ≥1.3*PUMP POWER |
| D   | S4PC9-85-110(200)-1500 | 110(200)V | 110-150V<br>(200-300V)    | 1500W | 9.0m³/h   | 85m       | 2"     | 2m    | <200(400)V                 | ≥1.3*PUMP POWER |
| E   | S4PC9-125-300-2200     | 300V      | 300-400V                  | 2200W | 9.0m³/h   | 125m      | 2"     | 2m    | <450V                      | ≥1.3*PUMP POWER |

SOLAR  
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## S4PC Solar Submersible Pump Series



### ADVANCED TECHNOLOGY



**01**

#### Outlet

1.25 / 1.5 / 2.0 inch,  
Stainless Steel AISI 304SS/316SS

**02**

#### Inlet

Stainless Steel  
AISI 304SS/316SS

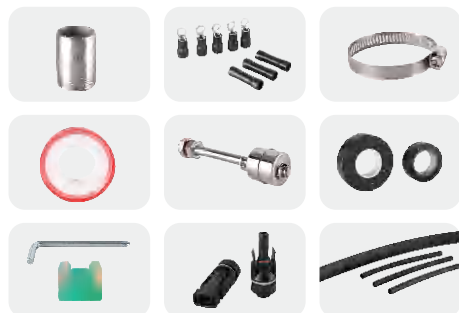
**03**

#### Bottom support

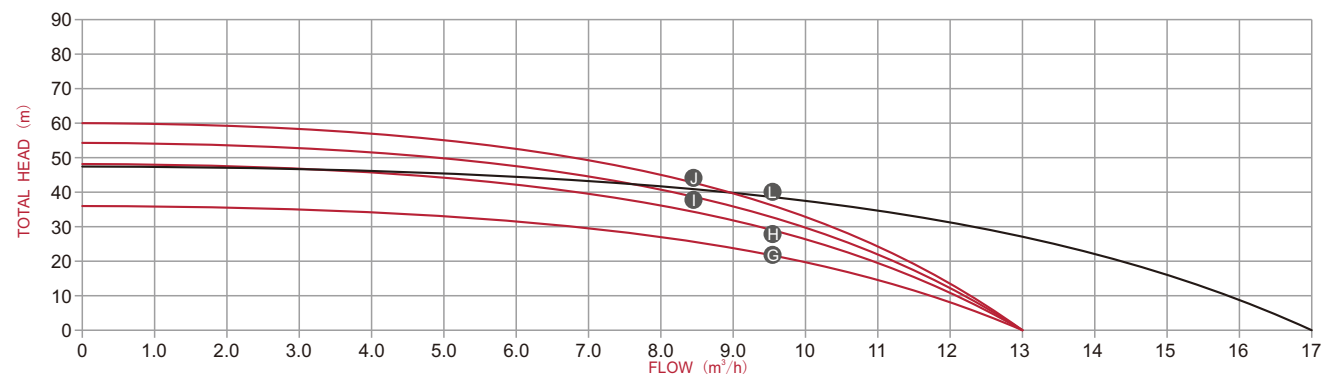
Stainless Steel  
AISI 304SS/316SS



### FREE SPARE PARTS



### PERFORMANCE CURVES AND DATA



| No. | ITEM                    | Voltage   | Optimum input voltage(DC) | Power | Max. Flow | Max. Head | Outlet | Cable | Solar panel                |                 |
|-----|-------------------------|-----------|---------------------------|-------|-----------|-----------|--------|-------|----------------------------|-----------------|
|     |                         |           |                           |       |           |           |        |       | Open circuit voltage (VOC) | Power           |
| G   | S4PC13-42-96-750        | 96V       | 110-150V                  | 750W  | 13m³/h    | 42m       | 2"     | 2m    | <200V                      | ≥1.3*PUMP POWER |
| H   | S4PC13-50-110(150)-1100 | 110(150)V | 110-150V<br>(150-200V)    | 1100W | 13m³/h    | 50m       | 2"     | 2m    | <200(300)V                 | ≥1.3*PUMP POWER |
| I   | S4PC13-58-110(180)-1300 | 110(180)V | 110-150V<br>(180-250V)    | 1300W | 13m³/h    | 58m       | 2"     | 2m    | <200(350)V                 | ≥1.3*PUMP POWER |
| J   | S4PC13-63-110(200)-1500 | 110(200)V | 110-150V<br>(200-300V)    | 1500W | 13m³/h    | 63m       | 2"     | 2m    | <200(400)V                 | ≥1.3*PUMP POWER |
| K   | S4PC13-110-300-2200     | 300V      | 300-400V                  | 2200W | 13m³/h    | 110m      | 2"     | 2m    | <450V                      | ≥1.3*PUMP POWER |
| L   | S4PC17-48-110(200)-1500 | 110(200)V | 110-150V<br>(200-300V)    | 1500W | 17m³/h    | 48m       | 2"     | 2m    | <200(400)V                 | ≥1.3*PUMP POWER |

Maintenance-Free Brushless DC Motor  
Integrated DSP & MPPT(Maximum Power Point remote control etc.)  
Suitable for Wide DC voltage Operation  
Control inputs for well probe,dry running protection  
Battery Operation,low voltage disconnect for battery Tracking)  
Overload and high Adjustable speed control of motor  
Temperature Protection and against reverse polarity

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## S3SC Solar Submersible Pump Series

### ADVANCED TECHNOLOGY



### FREE SPARE PARTS



Maintenance-Free Brushless DC Motor  
Integrated DSP & MPPT(Maximum Power Point remote control etc.)  
Suitable for Wide DC voltage Operation  
Control inputs for well probe,dry running protection  
Battery Operation,low voltage disconnect for battery Tracking)  
Overload and high Adjustable speed control of motor  
Temperature Protection and against reverse polarity



**01**

#### Outlet

1.25 / 1.5 inch,  
Stainless Steel AISI 304SS/316SS

**02**

#### Inlet

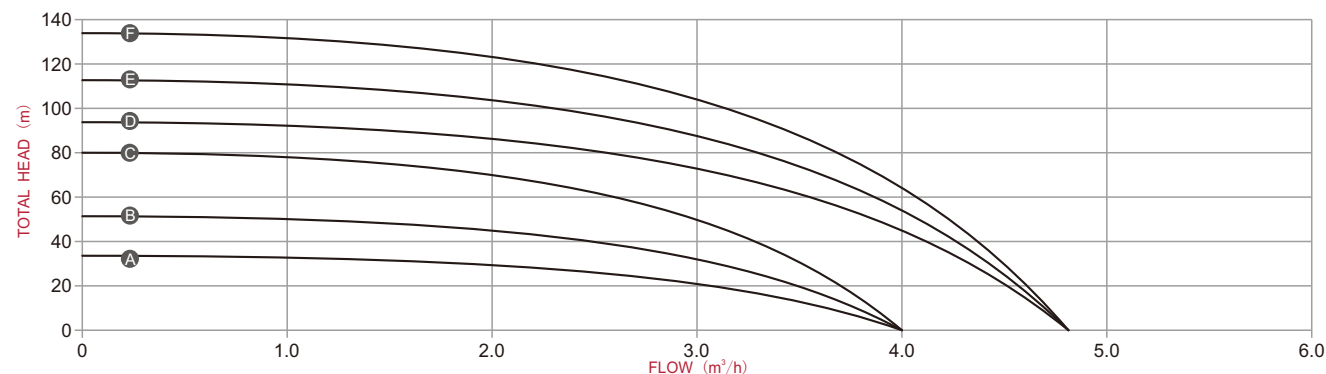
Stainless Steel  
AISI 304SS/316SS

**03**

#### Bottom support

Stainless Steel  
AISI 304SS/316SS

### PERFORMANCE CURVES AND DATA



| No. | ITEM                      | Voltage   | Optimum input voltage(DC) | Power | Max. Flow | Max. Head | Outlet | Cable | Solar panel                |                 |
|-----|---------------------------|-----------|---------------------------|-------|-----------|-----------|--------|-------|----------------------------|-----------------|
|     |                           |           |                           |       |           |           |        |       | Open circuit voltage (VOC) | Power           |
| A   | S3SC4-35-24-300           | 24V       | 30-48V                    | 300W  | 4.0m³/h   | 35m       | 1.25"  | 2m    | <50V                       | ≥1.3*PUMP POWER |
| B   | S3SC4-50-48-400           | 48V       | 60-90V                    | 400W  | 4.0m³/h   | 50m       | 1.25"  | 2m    | <100V                      | ≥1.3*PUMP POWER |
| C   | S3SC4-80-48(72)-600       | 48(72)V   | 60-90V<br>(72-120V)       | 600W  | 4.0m³/h   | 80m       | 1.25"  | 2m    | <100(150)V                 | ≥1.3*PUMP POWER |
| D   | S3SC4-8-95-72(96)-750     | 72(96)V   | 90-120V<br>(110-150V)     | 750W  | 4.8m³/h   | 95m       | 1.25"  | 2m    | <150(200)V                 | ≥1.3*PUMP POWER |
| E   | S3SC4-8-112-110(150)-1100 | 110(150)V | 110-150V<br>(150-200V)    | 1100W | 4.8m³/h   | 112m      | 1.25"  | 2m    | <200(300)V                 | ≥1.3*PUMP POWER |
| F   | S3SC4-8-135-110(200)-1500 | 110(200)V | 110-150V<br>(200-300V)    | 1500W | 4.8m³/h   | 135m      | 1.25"  | 2m    | <200(400)V                 | ≥1.3*PUMP POWER |

SOLAR  
**ZAI**

## S4SC Solar Submersible Pump Series



**01**

**Outlet**  
1.25 / 1.5 / 2.0 inch,  
Stainless Steel AISI 304SS/316SS

**02**

**Inlet**  
Stainless Steel  
AISI 304SS/316SS



**03**

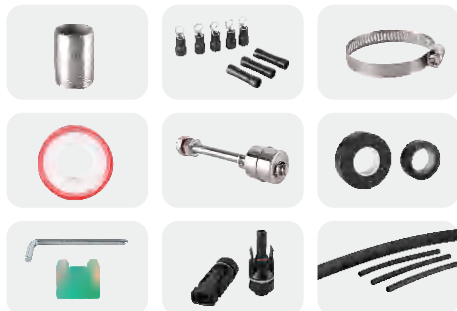
**Bottom support**  
Stainless Steel  
AISI 304SS/316SS



### ADVANCED TECHNOLOGY

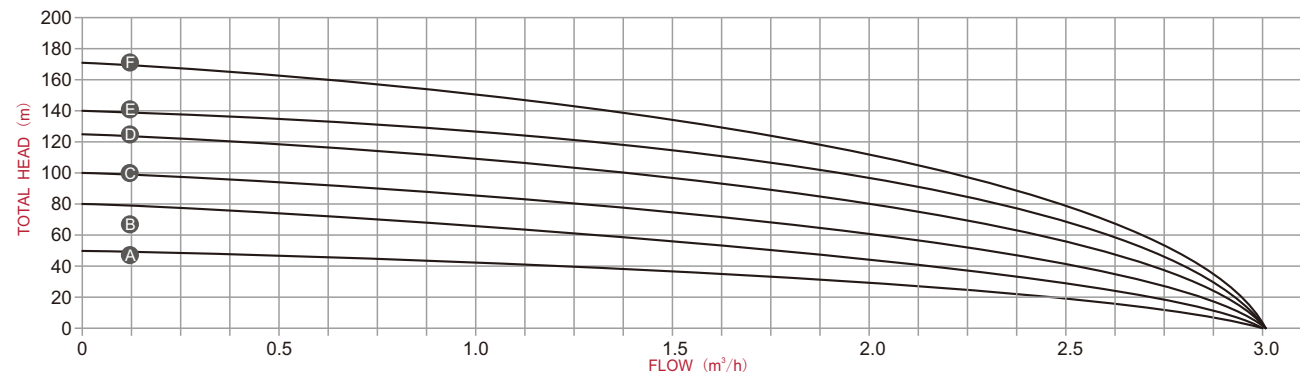


### FREE SPARE PARTS



Maintenance-Free Brushless DC Motor  
Integrated DSP & MPPT(Maximum Power Point remote control etc.  
Suitable for Wide DC voltage Operation  
Control inputs for well probe,dry running protection  
Battery Operation,low voltage disconnect for battery Tracking)  
Overload and high Adjustable speed control of motor  
Temperature Protection and against reverse polarity

### PERFORMANCE CURVES AND DATA



| No. | ITEM                      | Voltage   | Optimum input voltage(DC) | Power | Max. Flow | Max. Head | Outlet | Cable | Solar panel                |                 |
|-----|---------------------------|-----------|---------------------------|-------|-----------|-----------|--------|-------|----------------------------|-----------------|
|     |                           |           |                           |       |           |           |        |       | Open circuit voltage (VOC) | Power           |
| A   | S4SC3.0-50-48-400         | 48V       | 60-90V                    | 400W  | 3.0m³/h   | 50m       | 1.25"  | 2m    | <100(150)V                 | ≥1.3*PUMP POWER |
| B   | S4SC3.0-80-72-600         | 72V       | 90-120V                   | 600W  | 3.0m³/h   | 80m       | 1.25"  | 2m    | <150(200)V                 | ≥1.3*PUMP POWER |
| C   | S4SC3.0-100-72(96)-750    | 72(96)V   | 90-150V<br>(150-200V)     | 750W  | 3.0m³/h   | 100m      | 1.25"  | 2m    | <150(200)V                 | ≥1.3*PUMP POWER |
| D   | S4SC3.0-125-96(120)-900   | 96(120)V  | 110-150V<br>(180-250V)    | 900W  | 3.0m³/h   | 125m      | 1.25"  | 2m    | <200(300)V                 | ≥1.3*PUMP POWER |
| E   | S4SC3.0-140-110(150)-1100 | 110(200)V | 110-150V<br>(200-300V)    | 1100W | 3.0m³/h   | 140m      | 1.25"  | 2m    | <200(350)V                 | ≥1.3*PUMP POWER |
| F   | S4SC3.0-170-110(200)-1500 | 110(200)V | 110-150V<br>(200-300V)    | 1500W | 3.0m³/h   | 170m      | 1.25"  | 2m    | <200(400)V                 | ≥1.3*PUMP POWER |
| G   | S4SC3.0-260-300-2200      | 300V      | 300-400V                  | 2200W | 3.0m³/h   | 260m      | 1.25"  | 2m    | <450V                      | ≥1.3*PUMP POWER |

SOLAR  
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## S4SC Solar Submersible Pump Series



### ADVANCED TECHNOLOGY



**01**  
**Outlet**  
1.25 / 1.5 / 2.0 inch,  
Stainless Steel AISI 304SS/316SS



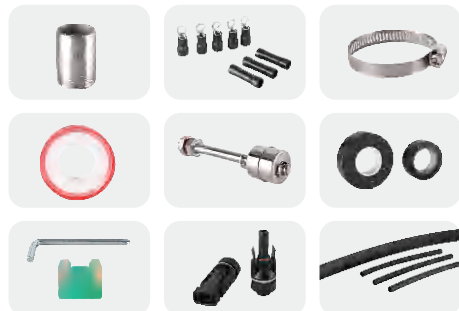
**02**  
**Inlet**  
Stainless Steel  
AISI 304SS/316SS



**03**  
**Bottom support**  
Stainless Steel  
AISI 304SS/316SS

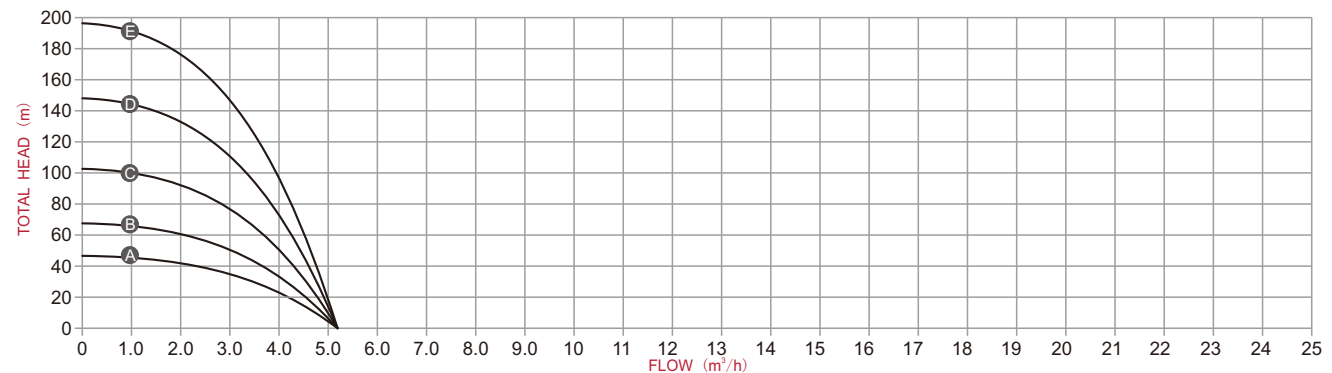


### FREE SPARE PARTS



Maintenance-Free Brushless DC Motor  
Integrated DSP & MPPT(Maximum Power Point remote control etc.  
Suitable for Wide DC voltage Operation  
Control inputs for well probe,dry running protection  
Battery Operation,low voltage disconnect for battery Tracking)  
Overload and high Adjustable speed control of motor  
Temperature Protection and against reverse polarity

### PERFORMANCE CURVES AND DATA



| No. | ITEM                      | Voltage   | Optimum input voltage(DC) | Power | Max. Flow | Max. Head | Outlet | Cable | Solar panel                |                 |
|-----|---------------------------|-----------|---------------------------|-------|-----------|-----------|--------|-------|----------------------------|-----------------|
|     |                           |           |                           |       |           |           |        |       | Open circuit voltage (VOC) | Power           |
| A   | S4SC5.2-45-48(72)-500     | 48(72)V   | 60-90V<br>(72-120V)       | 500W  | 5.2m³/h   | 45m       | 1.25"  | 2m    | <100(150)V                 | ≥1.3*PUMP POWER |
| B   | S4SC5.2-67-72(96)-750     | 72(96)V   | 90-120V<br>(110-150V)     | 750W  | 5.2m³/h   | 67m       | 1.25"  | 2m    | <150(200)V                 | ≥1.3*PUMP POWER |
| C   | S4SC5.2-101-110(150)-1100 | 110(150)V | 110-150V<br>(150-200V)    | 1100W | 5.2m³/h   | 101m      | 1.25"  | 2m    | <200(300)V                 | ≥1.3*PUMP POWER |
| D   | S4SC5.2-146-110(180)-1300 | 110(180)V | 110-150V<br>(180-250V)    | 1300W | 5.2m³/h   | 146m      | 1.25"  | 2m    | <200(350)V                 | ≥1.3*PUMP POWER |
| E   | S4SC5.2-198-110(200)-1500 | 110(200)V | 110-150V<br>(200-300V)    | 1500W | 5.2m³/h   | 198m      | 1.25"  | 2m    | <200(400)V                 | ≥1.3*PUMP POWER |
| F   | S4SC5.2-255-300-2200      | 300V      | 300-400V                  | 2200W | 5.2m³/h   | 255m      | 1.25"  | 2m    | <450V                      | ≥1.3*PUMP POWER |

SOLAR  
**ZAI**

## S4SC Solar Submersible Pump Series



### ADVANCED TECHNOLOGY



**01**  
**Outlet**  
1.25 / 1.5 / 2.0 inch,  
Stainless Steel AISI 304SS/316SS



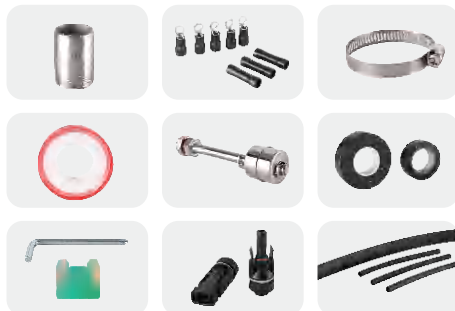
**02**  
**Inlet**  
Stainless Steel  
AISI 304SS/316SS



**03**  
**Bottom support**  
Stainless Steel  
AISI 304SS/316SS

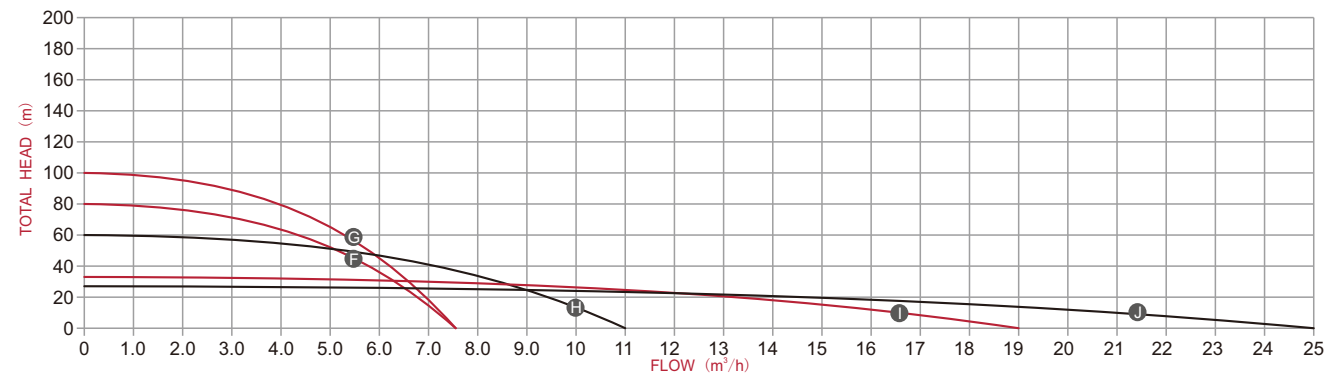


### FREE SPARE PARTS



Maintenance-Free Brushless DC Motor  
Integrated DSP & MPPT(Maximum Power Point remote control etc.  
Suitable for Wide DC voltage Operation  
Control inputs for well probe,dry running protection  
Battery Operation,low voltage disconnect for battery Tracking)  
Overload and high Adjustable speed control of motor  
Temperature Protection and against reverse polarity

### PERFORMANCE CURVES AND DATA



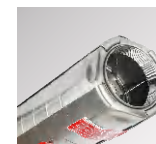
| No. | ITEM                      | Voltage   | Optimum input voltage(DC) | Power | Max. Flow | Max. Head | Outlet | Cable | Solar panel                |                 |
|-----|---------------------------|-----------|---------------------------|-------|-----------|-----------|--------|-------|----------------------------|-----------------|
|     |                           |           |                           |       |           |           |        |       | Open circuit voltage (VOC) | Power           |
| G   | S4SC7.5-80-110(180)-1300  | 110(180)V | 110-150V (180-250V)       | 1300W | 7.5m³/h   | 80m       | 1.25"  | 2m    | <200(350)V                 | ≥1.3*PUMP POWER |
| H   | S4SC7.5-100-110(200)-1500 | 110(200)V | 110-150V (200-300V)       | 1500W | 7.5m³/h   | 100m      | 1.25"  | 2m    | <200(400)V                 | ≥1.3*PUMP POWER |
| I   | S4SC7.5-150-300-2200      | 300V      | 300-400V                  | 2200W | 7.5m³/h   | 150m      | 1.25"  | 2m    | <450V                      | ≥1.3*PUMP POWER |
| J   | S4SC11-60-110(200)-1500   | 110(200)V | 110-150V (200-300V)       | 1500W | 11m³/h    | 60m       | 2"     | 2m    | <200(400)V                 | ≥1.3*PUMP POWER |
| K   | S4SC19-35-110(200)-1500   | 110(200)V | 110-150V (200-300V)       | 1500W | 19m³/h    | 35m       | 2"     | 2m    | <200(400)V                 | ≥1.3*PUMP POWER |
| L   | S4SC25-26-110(200)-1500   | 110(200)V | 110-150V (200-300V)       | 1500W | 25m³/h    | 26m       | 2"     | 2m    | <200(400)V                 | ≥1.3*PUMP POWER |



## S4/6SC Solar Submersible Pump Series



### ADVANCED TECHNOLOGY



01

#### Outlet

3.0 inch,  
Stainless Steel AISI 304SS/316SS

02

#### Inlet

Stainless Steel  
AISI 304SS/316SS



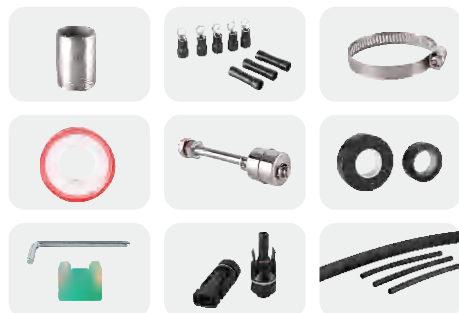
03

#### Bottom support

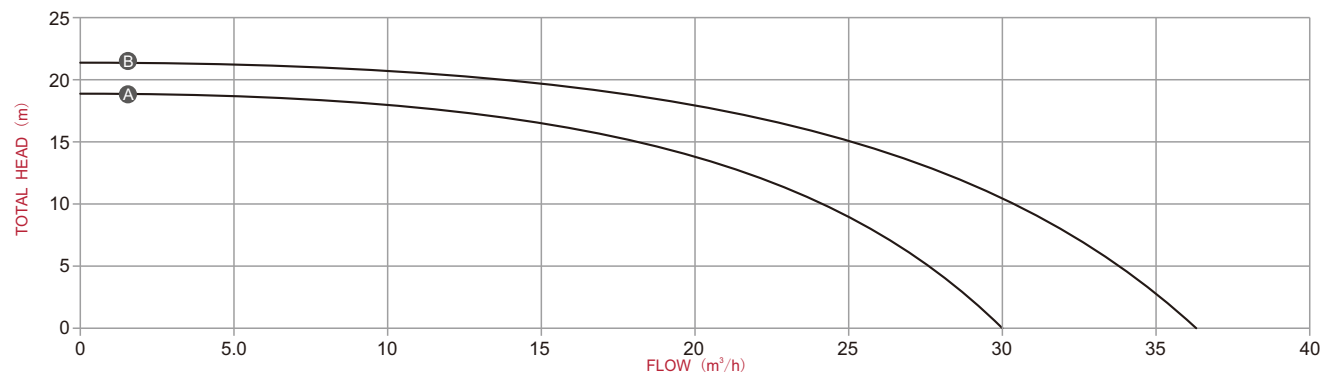
Stainless Steel  
AISI 304SS/316SS



### FREE SPARE PARTS



### PERFORMANCE CURVES AND DATA



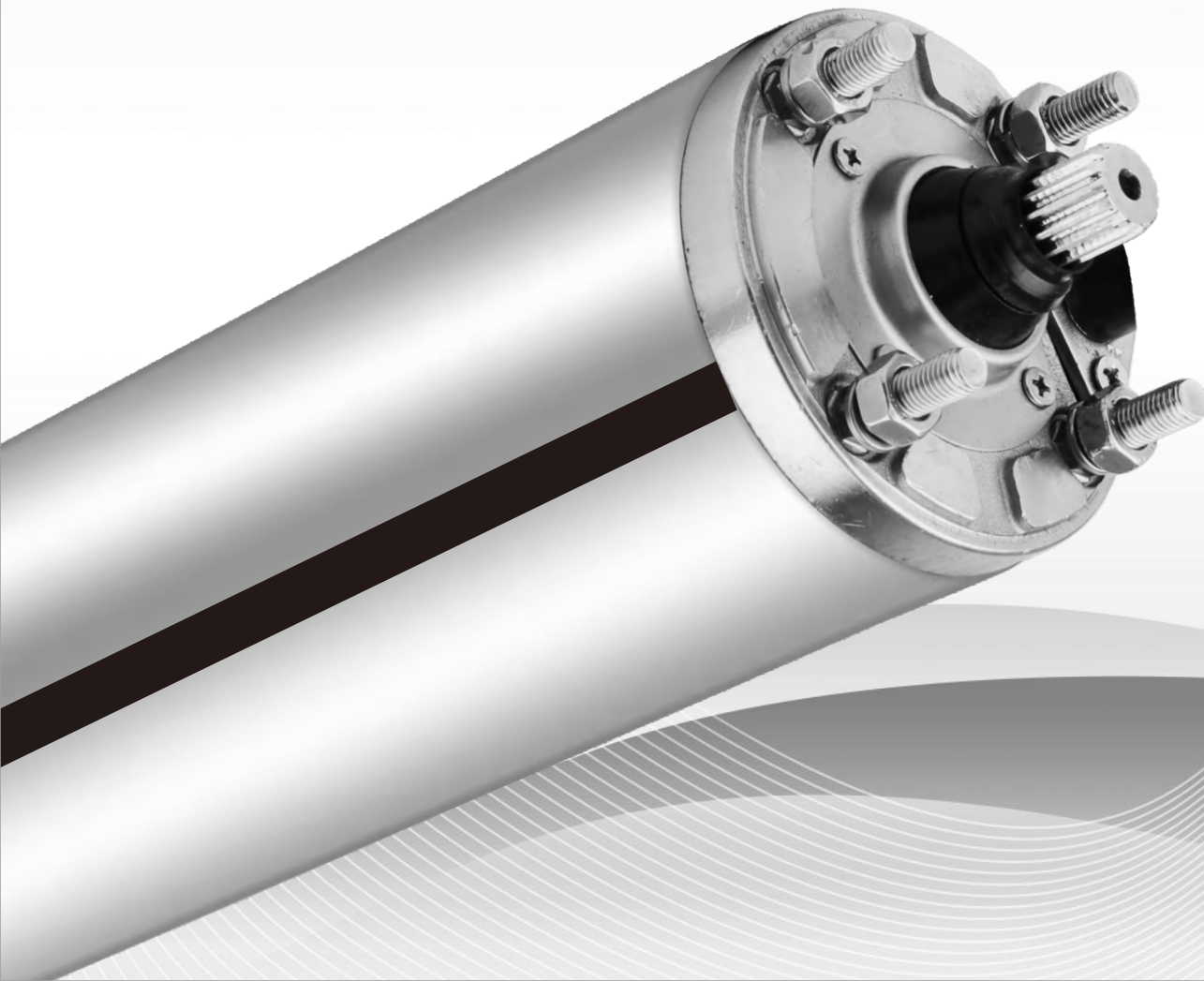
| No. | ITEM                      | Voltage   | Optimum input voltage(DC) | Power | Max. Flow | Max. Head | Outlet | Cable | Solar panel                |                 |
|-----|---------------------------|-----------|---------------------------|-------|-----------|-----------|--------|-------|----------------------------|-----------------|
|     |                           |           |                           |       |           |           |        |       | Open circuit voltage (VOC) | Power           |
| A   | S4/6SC30-19-110(150)-1100 | 110(150)V | 110-150V<br>(200-300V)    | 1100W | 30m³/h    | 19m       | 3"     | 2m    | <200(300)V                 | ≥1.3*PUMP POWER |
| B   | S4/6SC36-22-110(200)-1500 | 110(200)V | 110-150V<br>(150-200V)    | 1500W | 36m³/h    | 22m       | 3"     | 2m    | <200(400)V                 | ≥1.3*PUMP POWER |
| C   | S4/6SC36-38-300-2200      | 300V      | 300-400V                  | 2200W | 36m³/h    | 38m       | 3"     | 2m    | <450V                      | ≥1.3*PUMP POWER |

Maintenance-Free Brushless DC Motor  
Integrated DSP & MPPT(Maximum Power Point remote control etc.  
Suitable for Wide DC voltage Operation  
Control inputs for well probe,dry running protection  
Battery Operation,low voltage disconnect for battery Tracking)  
Overload and high Adjustable speed control of motor  
Temperature Protection and against reverse polarity



# **WATER - FILLED MOTOR**

**ENCAPSULATE MOTOR FOR OPTION**



SOLAR  
**ZAI**

## S3SW Solar Submersible Pump Series



**01**

**Outlet**

1.25 / 1.5 inch,  
Stainless Steel AISI 304SS/316SS

**02**

**Inlet**

Stainless Steel  
AISI 304SS/316SS

**03**

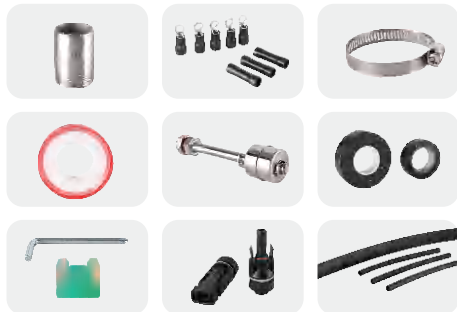
**Bottom support**

Stainless Steel  
AISI 304SS/316SS

### ADVANCED TECHNOLOGY

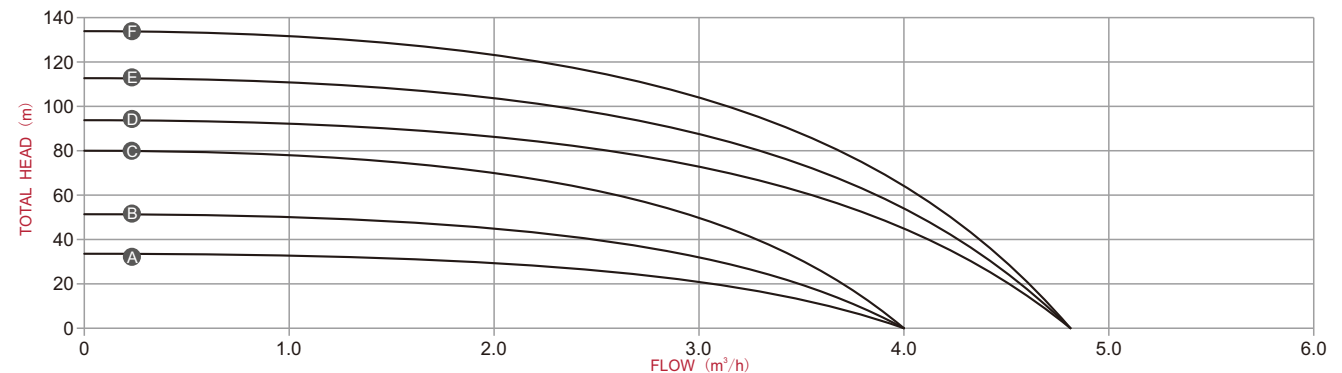


### FREE SPARE PARTS



Maintenance-Free Brushless DC Motor  
Integrated DSP & MPPT(Maximum Power Point remote control etc.)  
Suitable for Wide DC voltage Operation  
Control inputs for well probe,dry running protection  
Battery Operation,low voltage disconnect for battery Tracking)  
Overload and high Adjustable speed control of motor  
Temperature Protection and against reverse polarity

### PERFORMANCE CURVES AND DATA



| No. | ITEM                      | Voltage   | Optimum input voltage(DC) | Power | Max. Flow | Max. Head | Outlet | Cable | Solar panel                |                 |
|-----|---------------------------|-----------|---------------------------|-------|-----------|-----------|--------|-------|----------------------------|-----------------|
|     |                           |           |                           |       |           |           |        |       | Open circuit voltage (VOC) | Power           |
| A   | S3SW4-35-24-300           | 24V       | 30-48V                    | 300W  | 4.0m³/h   | 35m       | 1.25"  | 2m    | <50V                       | ≥1.3*PUMP POWER |
| B   | S3SW4-50-48-400           | 48V       | 60-90V                    | 400W  | 4.0m³/h   | 50m       | 1.25"  | 2m    | <100V                      | ≥1.3*PUMP POWER |
| C   | S3SW4-80-48(72)-600       | 48(72)V   | 60-90V<br>(72-120V)       | 600W  | 4.0m³/h   | 80m       | 1.25"  | 2m    | <100(150)V                 | ≥1.3*PUMP POWER |
| D   | S3SW4.8-95-72(96)-750     | 72(96)V   | 90-120V<br>(110-150V)     | 750W  | 4.8m³/h   | 95m       | 1.25"  | 2m    | <150(200)V                 | ≥1.3*PUMP POWER |
| E   | S3SW4.8-112-110(150)-1100 | 110(150)V | 110-150V<br>(150-200V)    | 1100W | 4.8m³/h   | 112m      | 1.25"  | 2m    | <200(300)V                 | ≥1.3*PUMP POWER |
| F   | S3SW4.8-135-110(200)-1500 | 110(200)V | 110-150V<br>(200-300V)    | 1500W | 4.8m³/h   | 135m      | 1.25"  | 2m    | <200(400)V                 | ≥1.3*PUMP POWER |

SOLAR  
**ZAI**

## S4SW Solar Submersible Pump Series

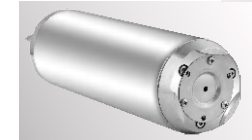
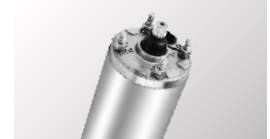


### ADVANCED TECHNOLOGY



**01**  
**Outlet**  
1.25 / 1.5 inch,  
Stainless Steel AISI 304SS/316SS

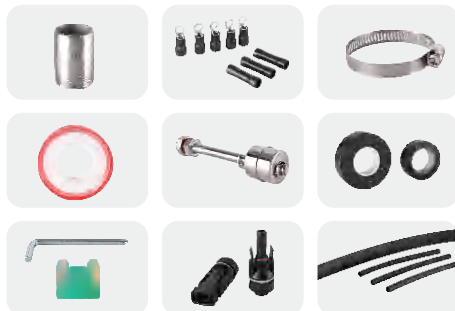
**02**  
**Inlet**  
Stainless Steel  
AISI 304SS/316SS



**03**  
**Bottom support**  
Stainless Steel  
AISI 304SS/316SS

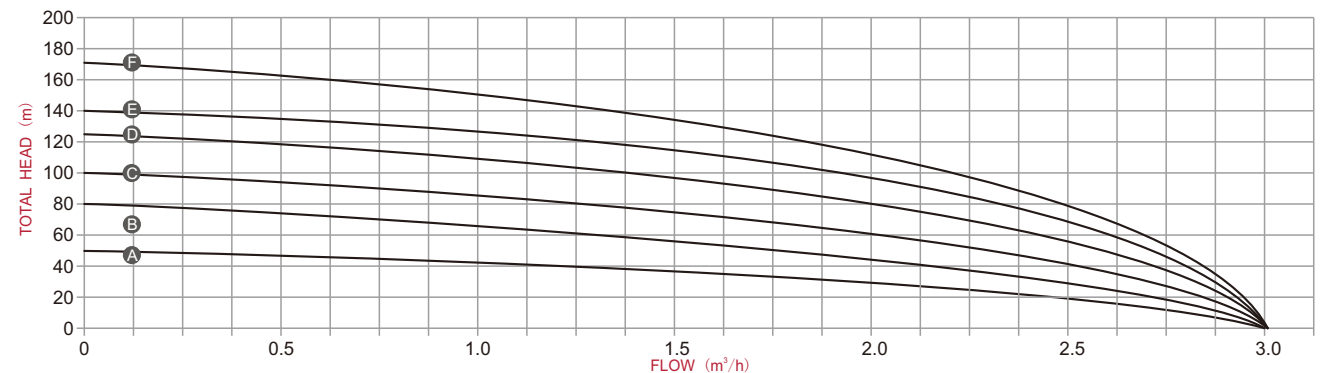


### FREE SPARE PARTS



Maintenance-Free Brushless DC Motor  
Integrated DSP & MPPT(Maximum Power Point remote control etc.  
Suitable for Wide DC voltage Operation  
Control inputs for well probe,dry running protection  
Battery Operation,low voltage disconnect for battery Tracking)  
Overload and high Adjustable speed control of motor  
Temperature Protection and against reverse polarity

### PERFORMANCE CURVES AND DATA



| No. | ITEM                      | Voltage   | Optimum input voltage(DC) | Power | Max. Flow | Max. Head | Outlet | Cable | Solar panel                |                 |
|-----|---------------------------|-----------|---------------------------|-------|-----------|-----------|--------|-------|----------------------------|-----------------|
|     |                           |           |                           |       |           |           |        |       | Open circuit voltage (VOC) | Power           |
| A   | S4SW3.0-50-48-400         | 48V       | 60-90V                    | 400W  | 3.0m³/h   | 50m       | 1.25"  | 2m    | <100(150)V                 | ≥1.3*PUMP POWER |
| B   | S4SW3.0-80-72-600         | 72V       | 90-120V                   | 600W  | 3.0m³/h   | 80m       | 1.25"  | 2m    | <150(200)V                 | ≥1.3*PUMP POWER |
| C   | S4SW3.0-100-72(96)-750    | 72(96)V   | 90-150V<br>(150-200V)     | 750W  | 3.0m³/h   | 100m      | 1.25"  | 2m    | <150(200)V                 | ≥1.3*PUMP POWER |
| D   | S4SW3.0-125-96(120)-900   | 96(120)V  | 110-150V<br>(180-250V)    | 900W  | 3.0m³/h   | 125m      | 1.25"  | 2m    | <200(300)V                 | ≥1.3*PUMP POWER |
| E   | S4SW3.0-140-110(150)-1100 | 110(200)V | 110-150V<br>(200-300V)    | 1100W | 3.0m³/h   | 140m      | 1.25"  | 2m    | <200(350)V                 | ≥1.3*PUMP POWER |
| F   | S4SW3.0-170-110(200)-1500 | 110(200)V | 110-150V<br>(200-300V)    | 1500W | 3.0m³/h   | 170m      | 1.25"  | 2m    | <200(400)V                 | ≥1.3*PUMP POWER |
| G   | S4SW3.0-260-300-2200      | 300V      | 300-400V                  | 2200W | 3.0m³/h   | 260m      | 1.25"  | 2m    | <450V                      | ≥1.3*PUMP POWER |

SOLAR  
**ZAI**

## S4SW Solar Submersible Pump Series

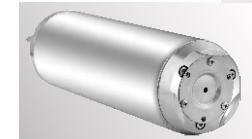
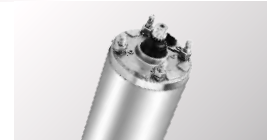


### ADVANCED TECHNOLOGY



**01**  
**Outlet**  
1.25 / 1.5 inch,  
Stainless Steel AISI 304SS/316SS

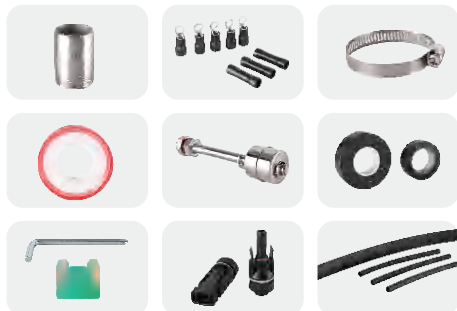
**02**  
**Inlet**  
Stainless Steel  
AISI 304SS/316SS



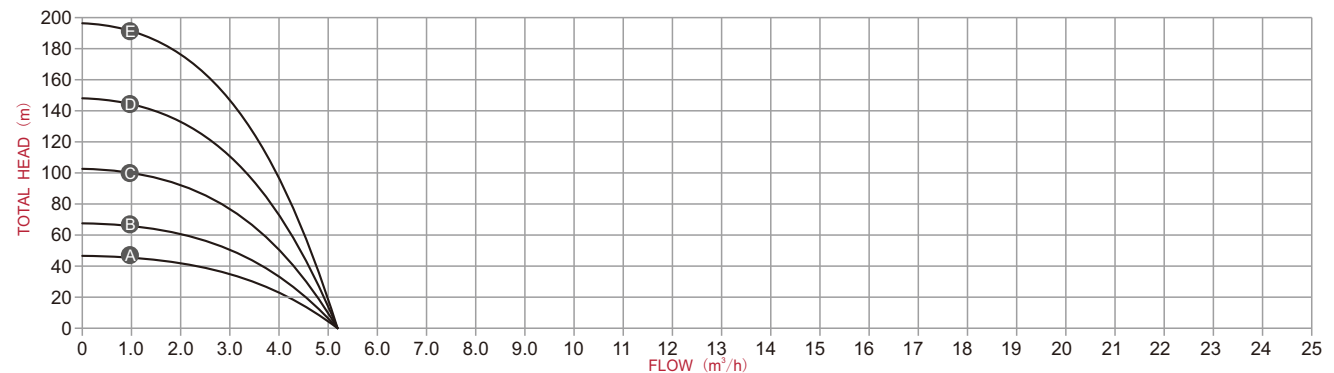
**03**  
**Bottom support**  
Stainless Steel  
AISI 304SS/316SS



### FREE SPARE PARTS



### PERFORMANCE CURVES AND DATA



| No. | ITEM                      | Voltage   | Optimum input voltage(DC) | Power | Max. Flow | Max. Head | Outlet | Cable | Solar panel                |                 |
|-----|---------------------------|-----------|---------------------------|-------|-----------|-----------|--------|-------|----------------------------|-----------------|
|     |                           |           |                           |       |           |           |        |       | Open circuit voltage (VOC) | Power           |
| A   | S4SW5.2-45-48(72)-500     | 48(72)V   | 60-90V<br>(72-120V)       | 500W  | 5.2m³/h   | 45m       | 1.25"  | 2m    | <100(150)V                 | ≥1.3*PUMP POWER |
| B   | S4SW5.2-67-72(96)-750     | 72(96)V   | 90-120V<br>(110-150V)     | 750W  | 5.2m³/h   | 67m       | 1.25"  | 2m    | <150(200)V                 | ≥1.3*PUMP POWER |
| C   | S4SW5.2-101-110(150)-1100 | 110(150)V | 110-150V<br>(150-200V)    | 1100W | 5.2m³/h   | 101m      | 1.25"  | 2m    | <200(300)V                 | ≥1.3*PUMP POWER |
| D   | S4SW5.2-146-110(180)-1300 | 110(180)V | 110-150V<br>(180-250V)    | 1300W | 5.2m³/h   | 146m      | 1.25"  | 2m    | <200(350)V                 | ≥1.3*PUMP POWER |
| E   | S4SW5.2-198-110(200)-1500 | 110(200)V | 110-150V<br>(200-300V)    | 1500W | 5.2m³/h   | 198m      | 1.25"  | 2m    | <200(400)V                 | ≥1.3*PUMP POWER |
| F   | S4SW5.2-255-300-2200      | 300V      | 300-400V                  | 2200W | 5.2m³/h   | 255m      | 1.25"  | 2m    | <450V                      | ≥1.3*PUMP POWER |

Maintenance-Free Brushless DC Motor  
Integrated DSP & MPPT(Maximum Power Point remote control etc.  
Suitable for Wide DC voltage Operation  
Control inputs for well probe,dry running protection  
Battery Operation,low voltage disconnect for battery Tracking)  
Overload and high Adjustable speed control of motor  
Temperature Protection and against reverse polarity

SOLAR  
**ZAI**

## S4SW Solar Submersible Pump Series

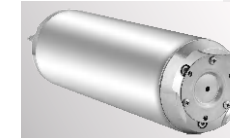


### ADVANCED TECHNOLOGY



**01**  
**Outlet**  
1.25 / 1.5 inch,  
Stainless Steel AISI 304SS/316SS

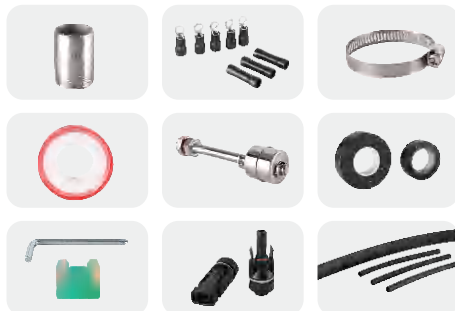
**02**  
**Inlet**  
Stainless Steel  
AISI 304SS/316SS



**03**  
**Bottom support**  
Stainless Steel  
AISI 304SS/316SS

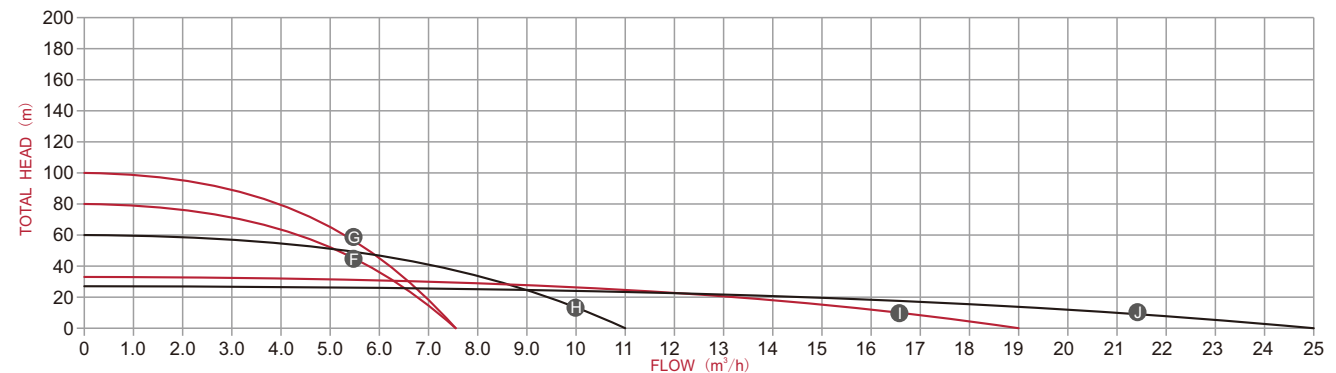


### FREE SPARE PARTS



Maintenance-Free Brushless DC Motor  
Integrated DSP & MPPT(Maximum Power Point remote control etc.  
Suitable for Wide DC voltage Operation  
Control inputs for well probe,dry running protection  
Battery Operation,low voltage disconnect for battery Tracking)  
Overload and high Adjustable speed control of motor  
Temperature Protection and against reverse polarity

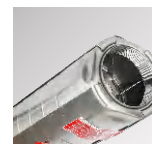
### PERFORMANCE CURVES AND DATA



| No. | ITEM                      | Voltage   | Optimum input voltage(DC) | Power | Max. Flow | Max. Head | Outlet | Cable | Solar panel                |                 |
|-----|---------------------------|-----------|---------------------------|-------|-----------|-----------|--------|-------|----------------------------|-----------------|
|     |                           |           |                           |       |           |           |        |       | Open circuit voltage (VOC) | Power           |
| G   | S4SW7.5-80-110(180)-1300  | 110(180)V | 110-150V<br>(180-250V)    | 1300W | 7.5m³/h   | 80m       | 1.25"  | 2m    | <200(350)V                 | ≥1.3*PUMP POWER |
| H   | S4SW7.5-100-110(200)-1500 | 110(200)V | 110-150V<br>(200-300V)    | 1500W | 7.5m³/h   | 100m      | 1.25"  | 2m    | <200(400)V                 | ≥1.3*PUMP POWER |
| I   | S4SW7.5-150-300-2200      | 300V      | 300-400V                  | 2200W | 7.5m³/h   | 150m      | 1.25"  | 2m    | <450V                      | ≥1.3*PUMP POWER |
| J   | S4SW11-60-110(200)-1500   | 110(200)V | 110-150V<br>(200-300V)    | 1500W | 11m³/h    | 60m       | 2"     | 2m    | <200(400)V                 | ≥1.3*PUMP POWER |
| K   | S4SW19-35-110(200)-1500   | 110(200)V | 110-150V<br>(200-300V)    | 1500W | 19m³/h    | 35m       | 2"     | 2m    | <200(400)V                 | ≥1.3*PUMP POWER |
| L   | S4SW25-26-110(200)-1500   | 110(200)V | 110-150V<br>(200-300V)    | 1500W | 25m³/h    | 26m       | 2"     | 2m    | <200(400)V                 | ≥1.3*PUMP POWER |

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## S4/6SW Solar Submersible Pump Series



**01**

**Outlet**

3.0 inch,  
Stainless Steel AISI 304SS/316SS

**02**

**Inlet**

Stainless Steel  
AISI 304SS/316SS

**03**

**Bottom support**

Stainless Steel  
AISI 304SS/316SS

### ADVANCED TECHNOLOGY

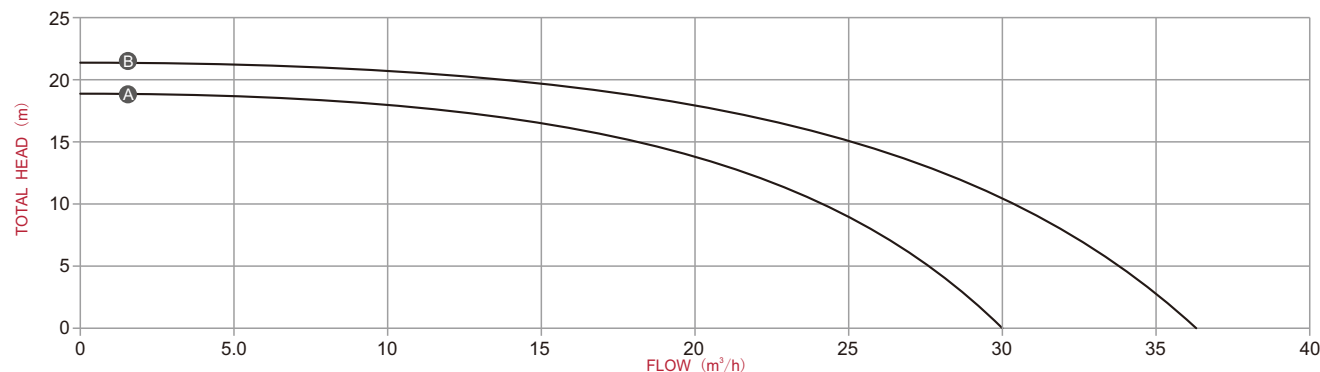


### FREE SPARE PARTS



Maintenance-Free Brushless DC Motor  
Integrated DSP & MPPT(Maximum Power Point remote control etc.  
Suitable for Wide DC voltage Operation  
Control inputs for well probe,dry running protection  
Battery Operation,low voltage disconnect for battery Tracking)  
Overload and high Adjustable speed control of motor  
Temperature Protection and against reverse polarity

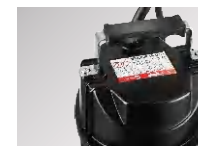
### PERFORMANCE CURVES AND DATA



| No. | ITEM                      | Voltage   | Optimum input voltage(DC) | Power | Max. Flow | Max. Head | Outlet | Cable | Solar panel                |                 |
|-----|---------------------------|-----------|---------------------------|-------|-----------|-----------|--------|-------|----------------------------|-----------------|
|     |                           |           |                           |       |           |           |        |       | Open circuit voltage (VOC) | Power           |
| A   | S4/6SW30-19-110(150)-1100 | 110(150)V | 110-150V<br>(200-300V)    | 1100W | 30m³/h    | 19m       | 3"     | 2m    | <200(300)V                 | ≥1.3*PUMP POWER |
| B   | S4/6SW36-22-110(200)-1500 | 110(200)V | 110-150V<br>(150-200V)    | 1500W | 36m³/h    | 22m       | 3"     | 2m    | <200(400)V                 | ≥1.3*PUMP POWER |
| C   | S4/6SW36-38-300-2200      | 300V      | 300-400V                  | 2200W | 36m³/h    | 38m       | 3"     | 2m    | <450V                      | ≥1.3*PUMP POWER |



## SSQD Solar Submersible Pump Series



**01**

### Outlet

2.0 inch, 3.0 inch, 4.0 inch,  
Cast Iron

**02**

### Inlet

Cast Iron

**03**

### Bottom support

Cast Iron

## ADVANCED TECHNOLOGY



Running Speed  
Control



Short-Circuit  
Protection



MPPT



Dry Running  
Protection



Soft Starting  
Protection



Reverse Voltage  
Protection



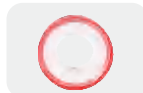
Low-voltage /  
Over-voltage  
Protection



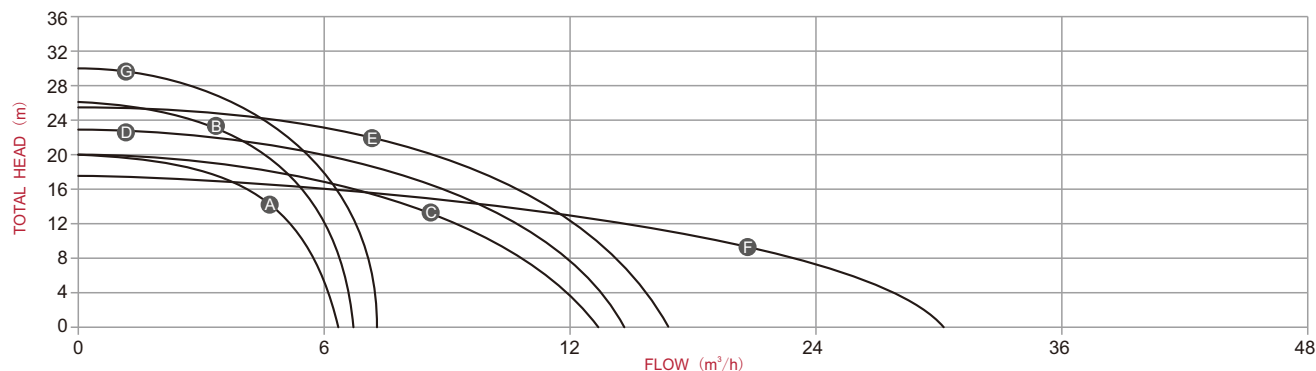
Over Current  
Protection



## FREE SPARE PARTS



## PERFORMANCE CURVES AND DATA



| No. | ITEM               | Voltage | Optimum input voltage(DC) | Power | Max. Flow | Max. Head | Outlet | Cable | Solar panel                |                 |
|-----|--------------------|---------|---------------------------|-------|-----------|-----------|--------|-------|----------------------------|-----------------|
|     |                    |         |                           |       |           |           |        |       | Open circuit voltage (VOC) | Power           |
| A   | SSQD6.5-20-72-550  | 72V     | 72-120V                   | 550W  | 6.5m³/h   | 20m       | 2"     | 2m    | <150V                      | ≥1.3*PUMP POWER |
| B   | SSQD7.0-26-96-750  | 96V     | 96-150V                   | 750W  | 7.0m³/h   | 26m       | 2"     | 2m    | <200V                      | ≥1.3*PUMP POWER |
| C   | SSQD13-20-72-550   | 72V     | 72-120V                   | 550W  | 13m³/h    | 20m       | 2"     | 2m    | <150V                      | ≥1.3*PUMP POWER |
| D   | SSQD14-23-96-750   | 96V     | 96-150V                   | 750W  | 14m³/h    | 23m       | 2"     | 2m    | <200V                      | ≥1.3*PUMP POWER |
| E   | SSQD16-25-150-1100 | 150V    | 150-200V                  | 1100W | 16m³/h    | 25m       | 2"     | 2m    | <300V                      | ≥1.3*PUMP POWER |
| F   | SSQD17-30-180-1300 | 180V    | 180-250V                  | 1300W | 17m³/h    | 30m       | 2"     | 2m    | <350V                      | ≥1.3*PUMP POWER |
| G   | SSQD30-8-96-750    | 96V     | 96-150V                   | 750W  | 30m³/h    | 8m        | 3"     | 2m    | <200V                      | ≥1.3*PUMP POWER |

Maintenance-Free Brushless DC Motor  
Integrated DSP & MPPT(Maximum Power Point remote control etc.)  
Suitable for Wide DC voltage Operation  
Control inputs for well probe,dry running protection  
Battery Operation,low voltage disconnect for battery Tracking)  
Overload and high Adjustable speed control of motor  
Temperature Protection and against reverse polarity

SOLAR  
**ZAI**

## SSQD Solar Submersible Pump Series

### ADVANCED TECHNOLOGY



Running Speed Control



Short-Circuit Protection



MPPT



Dry Running Protection



Soft Starting Protection



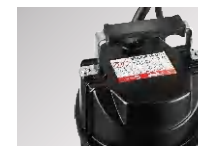
Reverse Voltage Protection



Low-voltage / Over-voltage Protection



Over Current Protection



**01**

**Outlet**

2.0 inch, 3.0 inch, 4.0 inch,  
Cast Iron

**02**

**Inlet**

Cast Iron



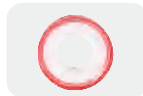
**03**

**Bottom support**

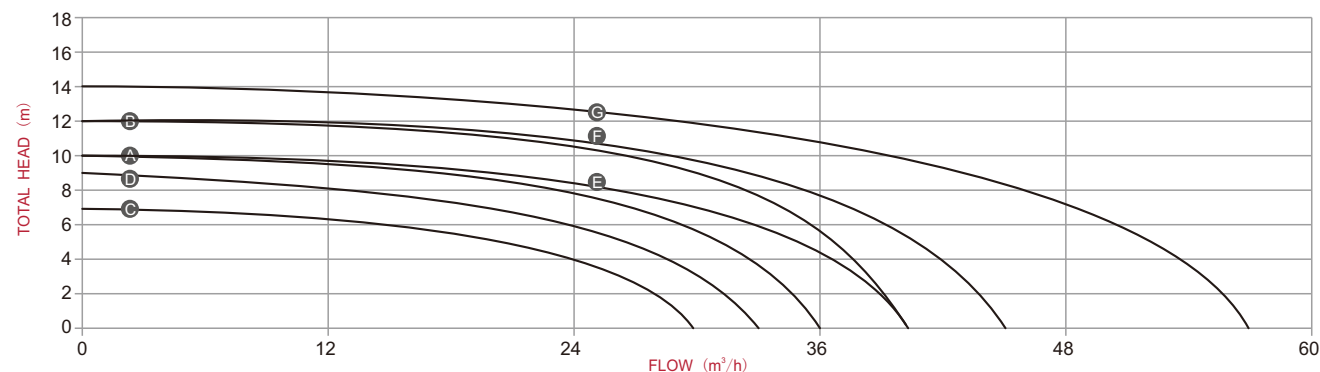
Cast Iron



### FREE SPARE PARTS



### PERFORMANCE CURVES AND DATA



| No. | ITEM               | Voltage | Optimum input voltage(DC) | Power | Max. Flow | Max. Head | Outlet | Cable | Solar panel                |                 |
|-----|--------------------|---------|---------------------------|-------|-----------|-----------|--------|-------|----------------------------|-----------------|
|     |                    |         |                           |       |           |           |        |       | Open circuit voltage (VOC) | Power           |
| A   | SSQD36-10-150-1100 | 150V    | 150-200V                  | 1100W | 36m³/h    | 10m       | 3"     | 2m    | <300V                      | ≥1.3*PUMP POWER |
| B   | SSQD40-12-180-1300 | 180V    | 180-250V                  | 1300W | 40m³/h    | 12m       | 3"     | 2m    | <350V                      | ≥1.3*PUMP POWER |
| C   | SSQD30-7-96-750    | 96V     | 96-150V                   | 750W  | 30m³/h    | 7m        | 3"     | 2m    | <200V                      | ≥1.3*PUMP POWER |
| D   | SSQD33-9-150-1100  | 150V    | 150-200V                  | 1100W | 33m³/h    | 9m        | 3"     | 2m    | <300V                      | ≥1.3*PUMP POWER |
| E   | SSQD40-10-180-1300 | 180V    | 180-250V                  | 1300W | 40m³/h    | 10m       | 4"     | 2m    | <350V                      | ≥1.3*PUMP POWER |
| F   | SSQD45-12-200-1500 | 200V    | 200-300V                  | 1500W | 45m³/h    | 12m       | 4"     | 2m    | <400V                      | ≥1.3*PUMP POWER |
| G   | SSQD56-14-300-2200 | 300V    | 300-400V                  | 2200W | 56m³/h    | 14m       | 4"     | 2m    | <400V                      | ≥1.3*PUMP POWER |

Maintenance-Free Brushless DC Motor  
Integrated DSP & MPPT(Maximum Power Point remote control etc.)  
Suitable for Wide DC voltage Operation  
Control inputs for well probe,dry running protection  
Battery Operation,low voltage disconnect for battery Tracking)  
Overload and high Adjustable speed control of motor  
Temperature Protection and against reverse polarity



## SSQB Solar Surface Pump Series



### ADVANCED TECHNOLOGY



Running Speed Control



Short-Circuit Protection



MPPT



Dry Running Protection



Soft Starting Protection



Reverse Voltage Protection



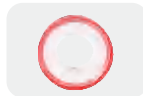
Low-voltage / Over-voltage Protection



Over Current Protection

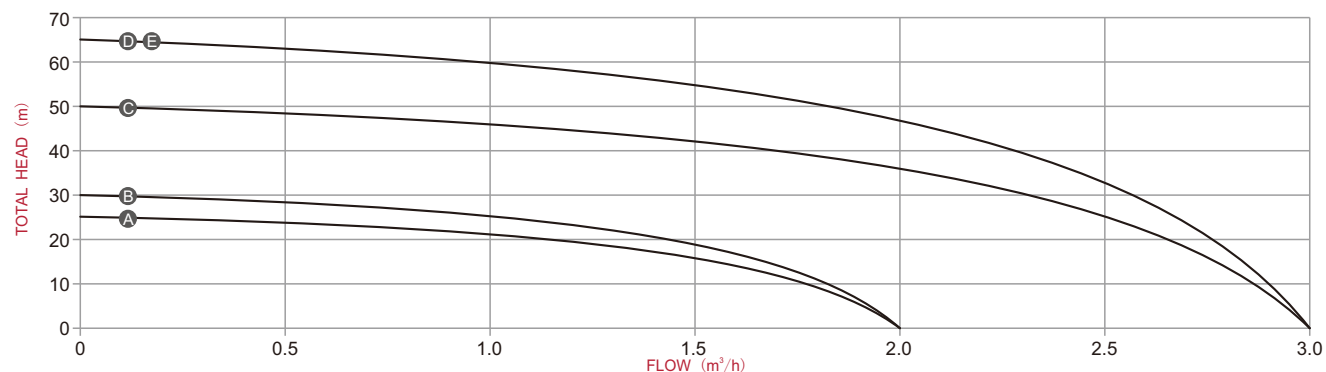


### FREE SPARE PARTS



Maintenance-Free Brushless DC Motor  
Integrated DSP & MPPT(Maximum Power Point remote control etc.)  
Suitable for Wide DC voltage Operation  
Control inputs for well probe,dry running protection  
Battery Operation,low voltage disconnect for battery Tracking)  
Overload and high Adjustable speed control of motor  
Temperature Protection and against reverse polarity

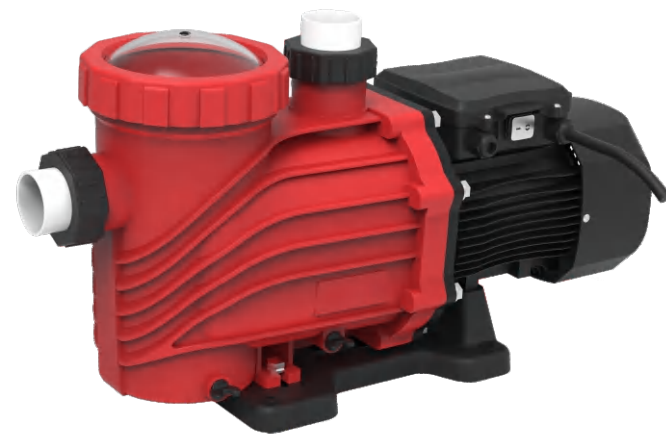
### PERFORMANCE CURVES AND DATA



| No. | ITEM                | Voltage | Optimum input voltage(DC) | Power | Max. Flow | Max. Head | Outlet | Cable | Solar panel                |                 |
|-----|---------------------|---------|---------------------------|-------|-----------|-----------|--------|-------|----------------------------|-----------------|
|     |                     |         |                           |       |           |           |        |       | Open circuit voltage (VOC) | Power           |
| A   | SSQB2-25-24-210     | 24V     | 30V-48V                   | 210W  | 2m³/h     | 25m       | 1×1"   | 2m    | <50V                       | ≥1.3*PUMP POWER |
| B   | SSQB2-30-24-280     | 24V     | 30V-48V                   | 280W  | 2m³/h     | 30m       | 1×1"   | 2m    | <50V                       | ≥1.3*PUMP POWER |
| C   | SSQB3-50-48-550     | 48V     | 60-90V<br>(72-120V)       | 550W  | 3m³/h     | 50m       | 1×1"   | 2m    | <100V                      | ≥1.3*PUMP POWER |
| D   | SSQB3-65-72(96)-750 | 72(96)V | 90-120V<br>(110-150V)     | 750W  | 3m³/h     | 65m       | 1×1"   | 2m    | <150(200)V                 | ≥1.3*PUMP POWER |



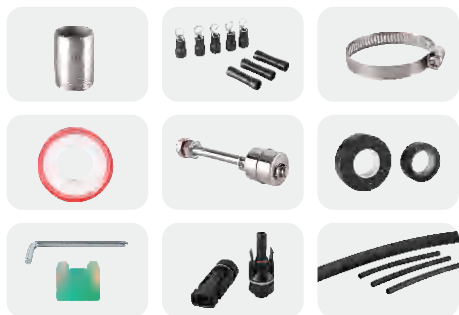
## SSSP Solar Surface Pump Series



### ADVANCED TECHNOLOGY

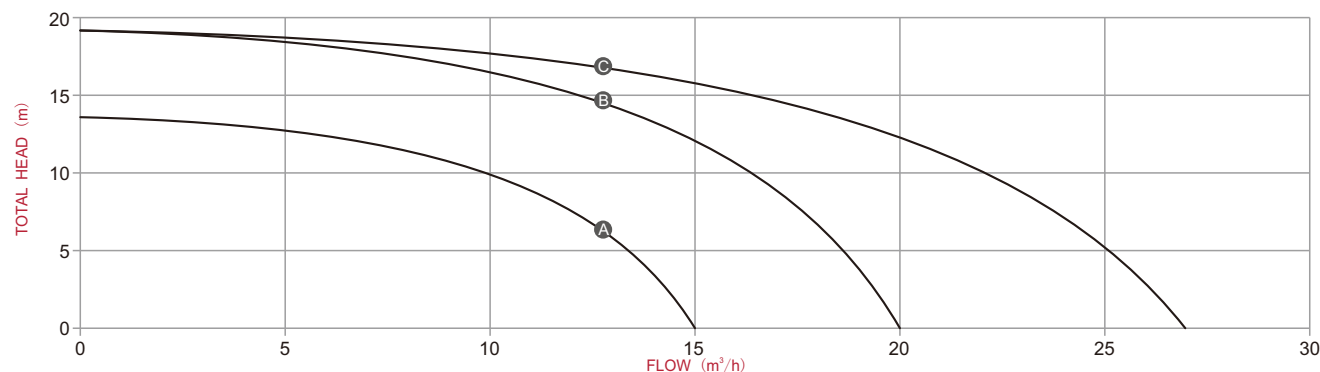


### FREE SPARE PARTS



Maintenance-Free Brushless DC Motor  
Integrated DSP & MPPT(Maximum Power Point remote control etc.  
Suitable for Wide DC voltage Operation  
Control inputs for well probe,dry running protection  
Battery Operation,low voltage disconnect for battery Tracking)  
Overload and high Adjustable speed control of motor  
Temperature Protection and against reverse polarity

### PERFORMANCE CURVES AND DATA



| No. | ITEM                    | Voltage   | Optimum input voltage(DC) | Power | Max. Flow | Max. Head | Outlet | Cable | Solar panel                |                 |
|-----|-------------------------|-----------|---------------------------|-------|-----------|-----------|--------|-------|----------------------------|-----------------|
|     |                         |           |                           |       |           |           |        |       | Open circuit voltage (VOC) | Power           |
| A   | SSSP15-14-48(72)-500    | 48(72)V   | 60-90V<br>(72-120V)       | 500W  | 15m³/h    | 14m       | 2×2"   | 2m    | <100V                      | ≥1.3*PUMP POWER |
| B   | SSSP20-19-110(150)-900  | 110(150)V | 110-150V<br>(150-200V)    | 900W  | 20m³/h    | 19m       | 2×2"   | 2m    | <200V                      | ≥1.3*PUMP POWER |
| C   | SSSP27-19-110(150)-1200 | 110(150)V | 110-150V<br>(150-200V)    | 1200W | 27m³/h    | 19m       | 3×3"   | 2m    | <200V                      | ≥1.3*PUMP POWER |



## SSH F Solar Surface Pump Series

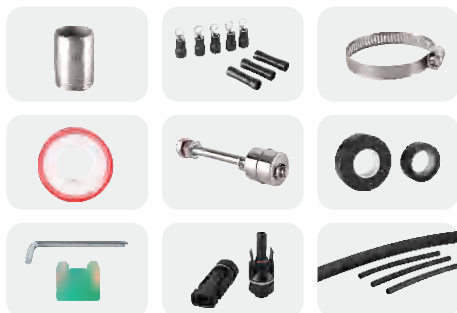


**WITH FRAME**

### ADVANCED TECHNOLOGY

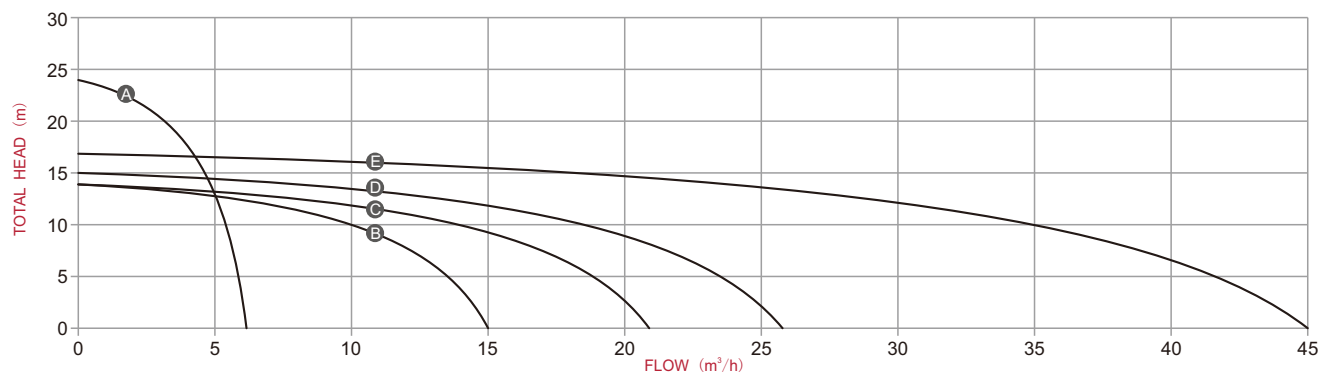


### FREE SPARE PARTS



Maintenance-Free Brushless DC Motor  
Integrated DSP & MPPT(Maximum Power Point remote control etc.)  
Suitable for Wide DC voltage Operation  
Control inputs for well probe,dry running protection  
Battery Operation,low voltage disconnect for battery Tracking)  
Overload and high Adjustable speed control of motor  
Temperature Protection and against reverse polarity

### PERFORMANCE CURVES AND DATA



| No. | ITEM                     | Voltage   | Optimum input voltage(DC) | Power | Max. Flow | Max. Head | Outlet   | Cable | Solar panel                |                 |
|-----|--------------------------|-----------|---------------------------|-------|-----------|-----------|----------|-------|----------------------------|-----------------|
|     |                          |           |                           |       |           |           |          |       | Open circuit voltage (VOC) | Power           |
| A   | SSH F6-24-48-550         | 48(72)V   | 60-90V<br>(72-120V)       | 550W  | 6m³/h     | 24m       | 1×1"     | 1m    | <100V                      | ≥1.3*PUMP POWER |
| B   | SSH F15-14-48-550        | 48(72)V   | 60-90V<br>(72-120V)       | 550W  | 15m³/h    | 14m       | 1.5×1.5" | 1m    | <100V                      | ≥1.3*PUMP POWER |
| C   | SSH F21-14-72(96)-750    | 72(96)V   | 90-120V<br>(110-150V)     | 750W  | 21m³/h    | 14m       | 2×2"     | 1m    | <150V                      | ≥1.3*PUMP POWER |
| D   | SSH F26-15-110(150)-1100 | 110(150)V | 110-150V<br>(150-200V)    | 1100W | 26m³/h    | 15m       | 2×2"     | 1m    | <200V                      | ≥1.3*PUMP POWER |
| E   | SSH F45-17-110(200)-1500 | 110(150)V | 110-150V<br>(200-300V)    | 1500W | 45m³/h    | 17m       | 3×3"     | 1m    | <200V                      | ≥1.3*PUMP POWER |



# ZSCO DC

## MPPT CONTROLLER

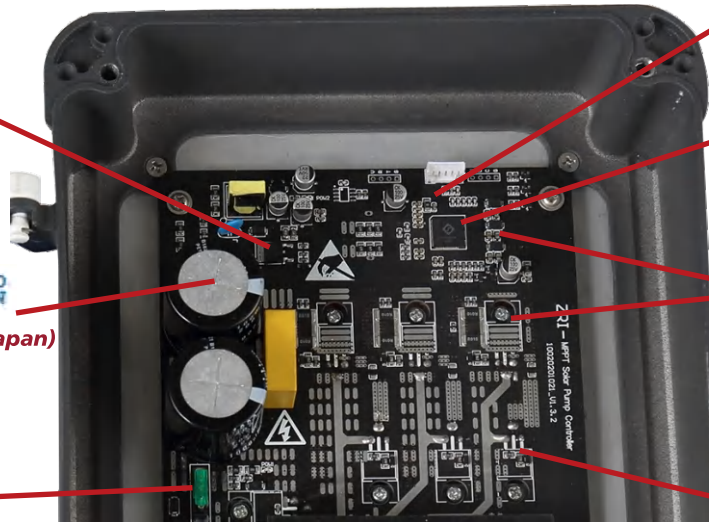


# DC MPPT CONTROLLER

**onsemi**  
**ONSEMI (USA)**  
**Regulated Power Supply**

**CapXon** **UNITED CHEMI-CON**  
**CapXon (Taiwan) / NCC (Japan)**  
**Electrolytic capacitor**

**Littelfuse**  
**Littelfuse (USA) Fuse**



**TEXAS INSTRUMENTS**  
**TI (USA) Driver chip**

**active-semi** **Silan**  
**Active-Semi (USA) / SILAN MCU**

**Infineon** **MagnaChip**  
**Infineon(USA) IC Driver**  
**Infineon(USA) MOSFET**  
**Magna(Korea) MOSFET**

**SAMSUNG**  
**SAMSUNG (Korea) Chip Resistor**



## Sine Wave Motor Driving Mode

with Disturbance Observation Method MPPT Tracking, more water come out at the same condition than other brand products.



## Military Hardware Standard

ZRI controller select the best brand of components, which ensures the quality and reliability of products.



Running Speed Control



Short-Circuit Protection



MPPT



Dry Running Protection



Soft Starting Protection



Reverse Voltage Protection



Low-voltage / Over-voltage Protection



Over Current Protection





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