

索日太阳能集团有限公司 SOPRAY SOLAR GROUP LIMITED

www.sopraysolargroup.com

Tel: 0086 755 23217266 / 13725536516

Fax:0086 755 23217266

User Manual

DC Solar PV Submersible Pump

Model: M123T-30 (Centrifugal)

| Voltage | 12V | Carry | 30 meters | Water | Ø76mm | Revolving | 3000/rpm |
|---------|------|--------|-----------|--------|-------|------------|----------|
| | | Water | | Inlet | | Speed | |
| | | Height | | | | | |
| Power | 396W | Flow | 3T/h | Water | Ø25mm | Protection | IP68 |
| | | Rate | | Outlet | | Grade | |

Size: Ø76mm x 600mm Base:Ø90mm

Material: stainless steel

Accessory:

A complete pump including 5 meters four square millimeter of pure copper wire and 25mm water outlet. We can extend the cable according to customer requirement.

Specification:

- 1. Wide working voltage: 10V-22V.
- 2. With Built-in control system, the pump can make full use of solar energy.
- 3. Over voltage protection/Low voltage protection: when the voltage is too high or too low water pump will automatically stop working; And then the pump will do self-detecting every 10 minutes. when the voltage recover to $10\sim22V$, the pump will start working again.
- 4. Water pump can be connected directly to solar panel and work in the sunshine. No need the controller.

Model naming rules:

Model description:

a:voltage: 12V b:flow rate: 3T/H (3m3/hour) c:carry water height: 30meter

Solar module:

For 12 v solar water pump system, it is recommended to use 18v mono silicon or poly solar panels connected in parallel;

For 24 v solar water pump system, it is recommended to use 30-36v solar panels connected in

Address (office): 907# Haicheng building ,Hua rong Road South Da lang Street ,Longhua District,Shenzhen City,China

Address (factory) : Yuan Yang Bridge Village, Shang Hu Town, Chang Shu City , China

Address (factory): 191 # Hua ting Road South, Da lang Street, Longhua District, Shenzhen City, China



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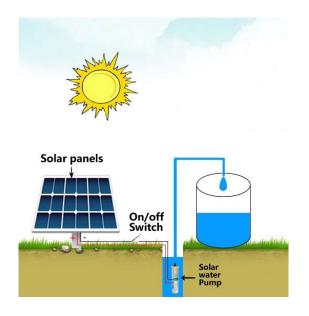
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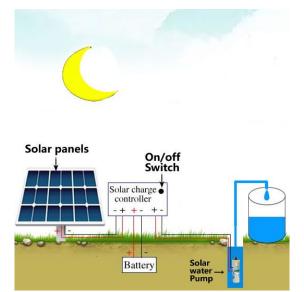
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parallel

Installation:





- 1. If the pump work only in the sun, can be 2. If need the pump to work at night or in rainy panels under working voltage 18v. If the sun is not very good, it is recommended to use more solar panels.
- connected directly to solar panels, no need days, it will need to use the battery and the controller. It will need around 600w solar controller (to prevent the battery overcharge and overdischarge with the controller.

Note:

- 1. The positive and negative wire of the pump can not be wrong connected;
- 2. The pump can't work long time without water;
- 3. The pump is a submersible pump, all must be submerged in the water;
- 4. Cable requirements.(note: when the cable length is more than 40 meters, it is recommended to use 6 sqmm or 10 sqmm pure copper cable.)

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