



80 WATT SOLAR WATER PUMP



User's Manual

Congratulations on your Sunforce Purchase. This product is designed to the highest technical specifications and standards. It will supply years of maintenance free use. Please read these instructions thoroughly prior to installation, then store in a safe place for future reference. If at any time you are unclear about this product, or require further assistance please do not hesitate to contact our trained professionals operating the customer support line 1-888-478-6435 or email to info@sunforceproducts.com

80 Watt Solar Water Pump

Included Items:

Solar Panel:

30 Meter extraction hose

30 Meter power cord

Submersible water pump

Connection box

Spare Brush's and diaphragm

Solar Panel support frame.

Nylon Pump retrieval cord

Warning

- Avoid Electrical Hazards when installing, wiring, operating, and maintaining your Solar Module. The solar module included generates DC electricity when exposed to sunlight or other light sources.
- Observe proper polarity when connecting the connector box
- Work Safely. Do not wear jewelry when working with electrical or mechanical equipment...
 - Do not attempt to pump flammable liquids.
 - Never touch the pump whilst in operation.
 - Never leave the pump in operation without water.

Features:

- Solar powered
- Thermally protected permanent magnet pump
- Industrial strength components
- Maintenance free simple installation
- Sturdy support frame
- Clean quite steady flow.

Specifications:

Solar Panel: Power Rating: Up to 80 Watts - Maximum rating – Under optimum conditions.

Current: 4.6Amps @ 17.1Volts.

Submersible water pump: 24 Volts DC. Positive displacement, 3 chamber diaphragm.

Pump motor: Permanent magnet, PIN 11 126-10 thermally protected, 4 amp max

Internal bypass: 105-110 PSI max

Outlet port ½" (12.7mm) barbed fitting for ID tubing.

Inlet: 50 mesh stainless steel screen

All components are made from high strength industrial grade plastics and stainless steel

Water head: 10m average 1500L per day (average under optimum conditions)

20m average 1000L per day (average under optimum conditions)

Lifespan of Carbon Brushes: Average workload 8 hours per day replace after 3000 hours.

Installation

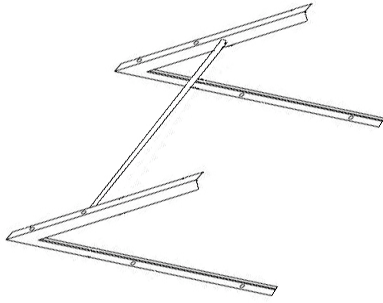


Figure 1

Choose an area as flat as possible, to set up the frame. (Fig 1)
Separate the two triangular supports using the screw bar utilizing the supplied screws and nuts
Lay your 80 Watt solar panel onto the frame, lining up the pre-drilled frame holes with the corresponding holes in the framework. Screw and secure.
Ensure all screws are tight and the panel is secure.
Connect the positive (+) wire from the solar panel to the positive (+) wire from the control box. Repeat this on the negative (-) side.
Turn the rocker switch to (I) ON.
You are now ready to begin pumping, place the submersible pump in water.

Maintenance Instructions:

Cleaning of the solar panel's glass may be performed by the user, utilizing a clean damp cloth.
Any other maintenance to the unit should be performed by qualified service personnel or contact our experienced customer service team.

Changing the Carbon Brush's and Diaphragm in 5 easy steps:



Step 1, loosen the screws on top of the pump and around the body.



Step 2, separate the motor from the bottom cover.



Step 3, completely remove the motor from casing.



Step 4, open the motor cover to gain access to the carbon brushes.



Step 5, you now have access to the diaphragm if required.

Troubleshooting

Should you fail to have a consistent flow through the outlet hose, the problem may be trapped air. Fill the water input hose with water, and repeat initial procedure lifting the hose to assist in water drawing. Perform regular cleaning of the submersible pump, ensuring it's free from any blockage. Do not leave pump running without water, this will damage the pumps lifespan. Should you still have operational problems change the Carbon Brush's and or Diaphragm.

WARRANTY

The 80 Watt Solar Water Pump is covered by a one year limited warranty, and must be tested under optimal conditions.

This warranty does not apply in the event of misuse or abuse and or repairs and alterations.

For more information or technical support

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MADE IN CHINA

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