



SWGSL220

FUNCTIONALITY PROBLEMS

- Pump does not operate even though the solar module is in full sunlight.
 - No connection to the solar module - check connection to the solar module.
 - Impeller is blocked - To clean the pump, remove the front plate and the impeller. Use a small brush or stream of water to remove any debris.
- Pump does operate but there is no water running through the fountain head check for the build up of sediment or scale in the tubes or the filter- clean the tubes and the filter.

STORAGE

- Please charge the battery for at least a day in direct sunlight when the first time using the solar pump or when you store the solar pump for a winter.
- In order to keep the battery long life, please charge the solar pump to fully charge status and plug-out the pump from the solar panel before you store the solar pump into warehouse.

TECHNICAL DATA

| | |
|-------------------|--------------|
| Solar Panel | 2W |
| Operation Voltage | 6V DC |
| Water Flow Max. | 200LPH |
| Cable Length | 5M |
| Lithium Battery | 3.7V 2000mAh |



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Ball Solar Fountain with Battery Back-Up Solar Pump

These instructions contain important information for using the product for the first time. Please keep this instruction for later reference. They should always accompany the product in the event of transfer a new user.



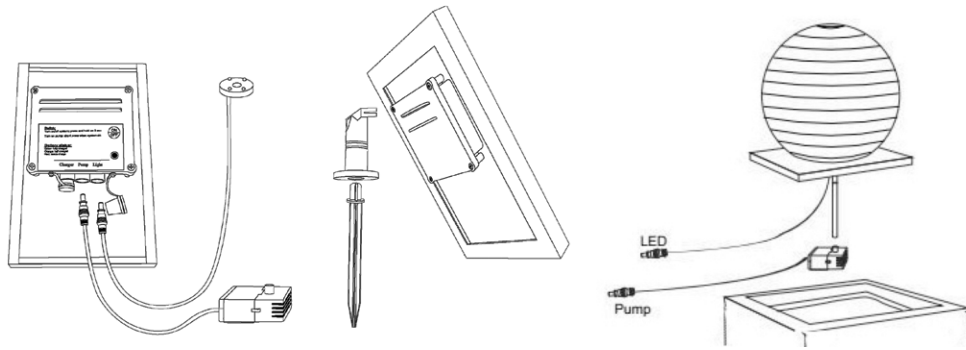
OVERVIEW

- The solar pump is designed for fountain, pond or outdoor use. In order for the solar pump to operate, the solar panel needs to be in direct sunlight.
- This solar pump is equipped with battery pack and can be switched on and off by a touch switch on the control housing. In the evening, the built-in white LEDs will light automatically.

CAUTION: Do not strike the solar panel. Do not let the pump run dry for long time. Do not lift the pump by the power cord. Operate in freshwater only.

ASSEMBLING AND USING YOUR PRODUCT

- Unpack all components carefully.
- Connect the hose from the top jug to the vent of the pump and place the pump underwater and make sure that it is fully immersed in water.
- Connect the pump cable to the socket of the control housing on the rear side of the solar panel.
- Connect the LED light cable to the socket of the control housing.
- Make sure direct sunlight shines on the solar module when selecting the right place for the solar module, this will ensure the built-in battery will be charged properly.
- The solar fountain is now ready to use.



OPERATING INSTRUCTIONS

Turn on the pump: short press the ON/OFF position to turn on the pump, the pump will run certain hours (refer to battery status) and turn to solar mode automatically. The pump will operate automatically next day in direct sunlight.

Charge the battery: press and hold on 3 seconds to turn OFF the pump and charge the full solar energy to battery during day time, turn on the pump when you need it (on demand).

Battery status:

Green: battery is full charged. Pump will run around 6-8 hours.

Orange: battery is half charged. Pump will run around 2-6 hours.

Red: battery needs charges. Pump will run less than 1 hour.

(Note: In order to protect battery, don't manually turn on the pump frequently)

Note: The indicator light is solid when charging battery.

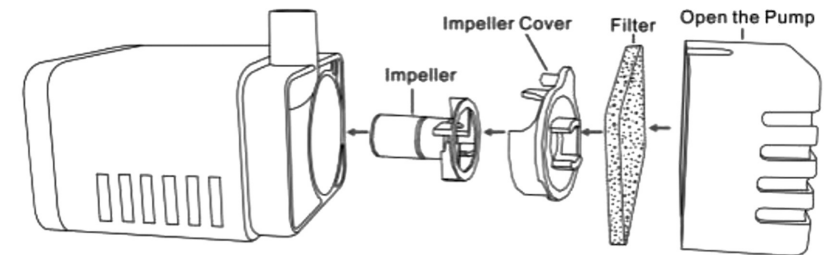
PUMP PERFORMANCE IN DIFFERENT WEATHER CONDITION:

| Weather | 1. Pump on 2. Charge extra solar energy to battery | 1. Pump off 2. Charge full solar energy to battery |
|---------|---|---|
| | Solar runs the pump and charges the battery. Pump performance is maintained when the clouds pass. Pump runs on fully half an hour longer into the evening. | Battery should be fully charged in 1 day. |
| | Solar runs the pump and supplies extra energy to the battery. Performance is maintained when the clouds pass. Pump will only run a shorter period of time into the evening. | Battery will take 2 to 3 days to fully charge. |
| | Pump will only run when there is sufficient power from the battery. Little or no battery charging occurs so pump performance is not maintained. | Battery will take several days to fully charge. |
| | No solar power is available, pump will not run and battery will not charge. | Battery will not charge. |

If the pump stops running when cloudy or night, and you want to force the pump running for certain hours, short press to turn on the pump, the pump will run hours until battery flat.

CLEANING & MAINTENANCE

Pump: If, after a period of time, the pump starts to lose power or stops working check for the build up of sediment, scale or dirt in the filter. Remove the pump cover and the impeller cover. Clean them and the filter by fresh water.



Solar panel: The panel should be cleaned periodically with a soft tissue. Regular cleaning of the panel is advised to maintain optimum conversion of the sun's energy into direct current.