

Solar Fountain Feature

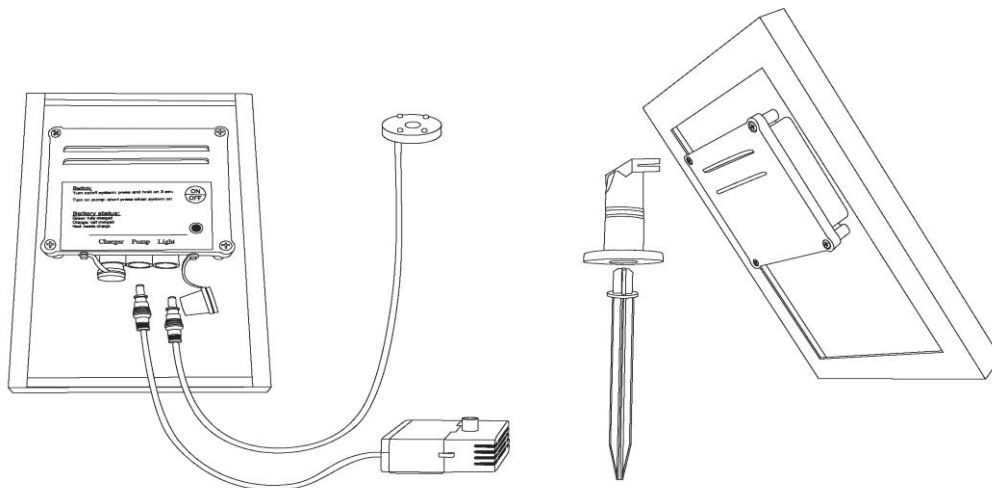
Model: FOUNT-BALL-BK

Note:

1. Charge the pump unit for at least two days before the pump is used for the first time;
2. The LED light will work only when it's dark. If you want to test it in the daytime, turn the solar panel upside down and minimise exposure to sunlight.

1 OVERVIEW

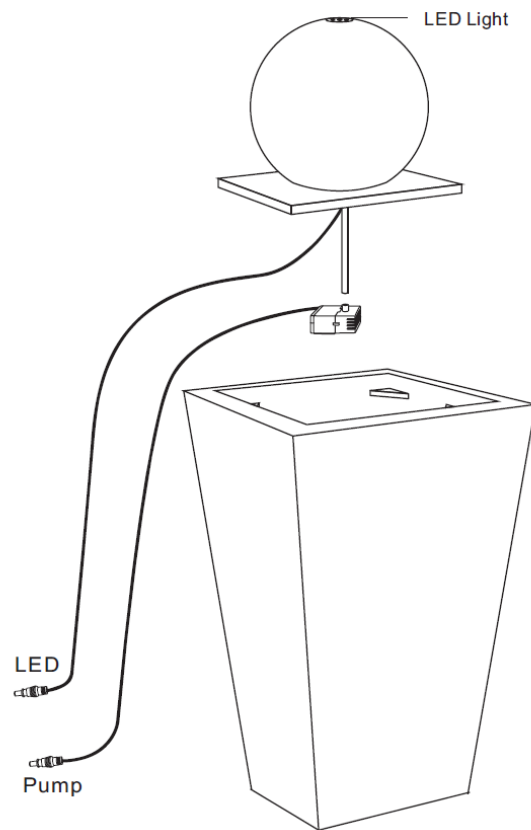
- 1.1 The solar pump is designed for fountain, pond or outdoor use. In order to make the solar pump work, the solar panel needs to be in direct sunlight. When the sun light is strong enough, the solar pump will start to work automatically. It will stop working when the solar panel is in shadow or the sunlight is not enough. If the fountain is used in evening, four built-in white LEDs will give light automatically to enhance the beauty scene of the water jet.
- 1.2 This solar pump is equipped with a battery pack. Extra electricity will be stored in the battery pack and to be used when there is no enough sunlight or in night times. Press the button (Switch), which is on the control house which is affixed to the rear side of the solar panel, to use the stored electricity to power the pump.



2 ASSEMBLING AND USING YOUR PRODUCT

- 2.1 Unpack all components carefully. Please keep in mind that some water may splash over the rim of a bowl, do not set up the cascade fountain on a surface which may be damaged by water.
- 2.2 Fill the fountain with clean tap water from the bowl.
- 2.3 Connect the rubber tube, which is from the upper bowl of the fountain, to the pump then place the pump in water and make sure it is **fully immersed** in water.
- 2.4 Connect the pump cable to the socket of the control housing, which is on the rear side of the solar panel;
- 2.5 Connect the LED light (optional) cable to the socket of the control housing;
- 2.6 Make sure direct sunlight shines on the solar module.
- 2.7 The solar fountain is now ready for use.

Assembly



3 CAUTION

- 3.1 Do not strike the solar panel
- 3.2 Do not let the pump run dry for long time
- 3.3 Do not lift the pump by the power cord
- 3.4 Operate in freshwater only

4 OPERATING INSTRUCTIONS

Automatic Operation: In this mode, the pump will start to work automatically when the solar panel gets enough direct sunlight and stop working when there is no enough sunlight on the panel.

Turn on the pump by using stored electricity: In this mode, the pump will be run by the battery. Short press the button to turn on the pump. The pump will start to run by using the stored electricity in the battery pack. It will stop automatically when the battery is low. When the pump stops, it will switch back to Automatic Operation mode.

Stop the pump: Press the button and hold it on for 3 seconds. The pump will stop.

Charge the battery: You can store all the electricity to the battery pack by turning off the pump and to use it when you need it. Press the button and hold it on for 3 seconds to turn off the pump. All the electricity collected will charge to the battery.

Battery status:





Green: battery is full charged. Pump will run around 4-6 hours.

Orange: battery is half charged. Pump will run around 2-4 hours.

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

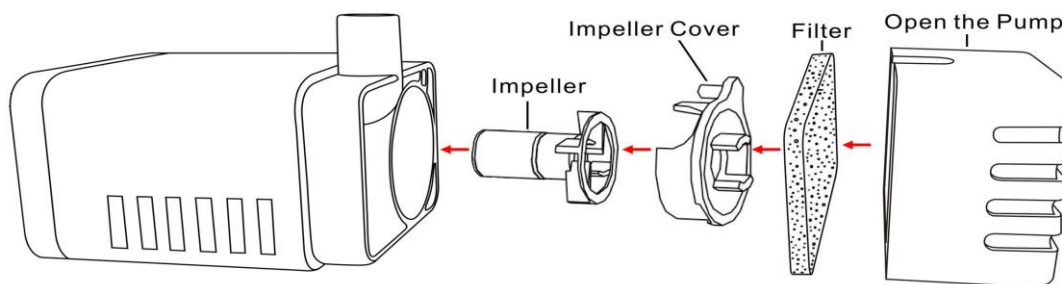
Note: The indicator light is blinking when the pump is on.

Pump performance in different weather condition:

Weather	Performance of the pump	Charging of the battery
	Solar energy runs the pump and charges the battery at the same time.	Battery will be fully charged in 1day.
	Solar energy runs the pump and supplies very little extra energy to the battery.	Battery will be fully charged in 2 to 3 days.
	Pump could only run by using the stored energy in the battery pack.	Battery will not be charged.
	Pump could only run by using the stored energy in the battery pack.	Battery will not be charged.

5 CLEANING AND 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.

6 TROUBLE SHOOTING

6.1 Pump does not operate even though the solar panel 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 steam of water to remove any debris.

6.2 Pump does operate but there is no water running through the fountainhead check for the build up of sediment or scale in the tubes or the filter- clean the tubes and the filter.

7 TECHNICAL DATA

Solar Panel:	2 W
Solar Pump Operation Voltage:	6V DC
Water Flow Max.	200LPH
Water lift Max.:	0.8M
LED Light (optional)	4 LED white light
Cable Length	5M
Lithium Battery	3.7V-2000mAH