GW647

# Broken Barrel Solar Water Feature

## Information for use



Thank you for purchasing this Broken Barrel Solar Water Feature. This piece creates a continuous cascading flow that adds movement and character to patios, courtyards and garden seating areas. Please read through all the information in this document and keep it for future reference.

## Instructions For Use

This solar pump is for outdoor use. For the solar pump to operate, the solar panel needs to be in direct sunlight.

This solar pump has a backup battery pack, and it is controlled via a switch on the control box. This will allow the pump and LED lights to work in the evening. Please note that the evening runtime will vary depending on the charge level of the battery and weather conditions.

**PLEASE NOTE: For best results, allow the solar panel to charge the battery 24-48 hrs in direct sunlight before using the pump.**

## Assembling Your Product

1. Unpack all components carefully.
2. Connect the pump cable to the socket of the control box on the rear side of the solar panel. (Fig.1). Make sure to put the solar panel in direct sunlight.
3. Connect the light cable to the light socket of pump (Fig. 2).
4. Fill the fountain with fresh water.
5. Place the pump underwater and make sure that, it is fully immersed in water.
6. The solar water feature is now ready to use.

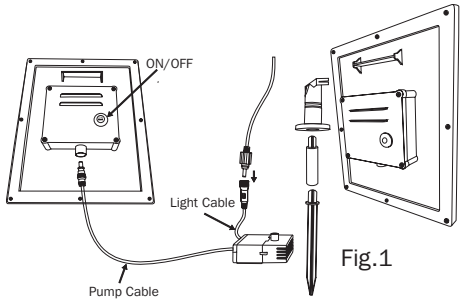


Fig.1

## Operating The Pump

**ON:** Press the switch on the control box once to turn on. The pump will run until the battery power runs out. The battery then enters the charging state. The pump will start automatically once it has sufficient charge.

**OFF:** Press the switch on the control box to turn off.

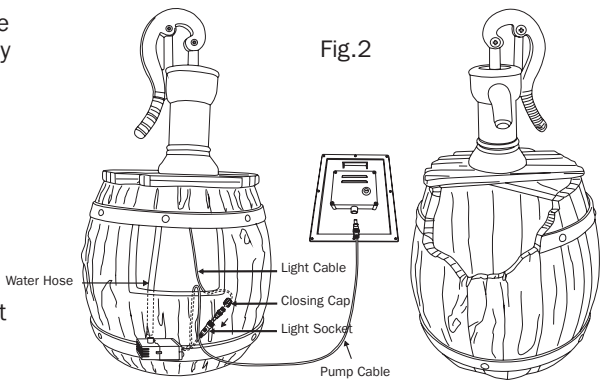


Fig.2

## Battery Status

When the battery is fully charged and without any sunlight input, pump will run around 6-8 hours. With strong sunlight input, could run for more than 8 hours.

## Safety Warnings

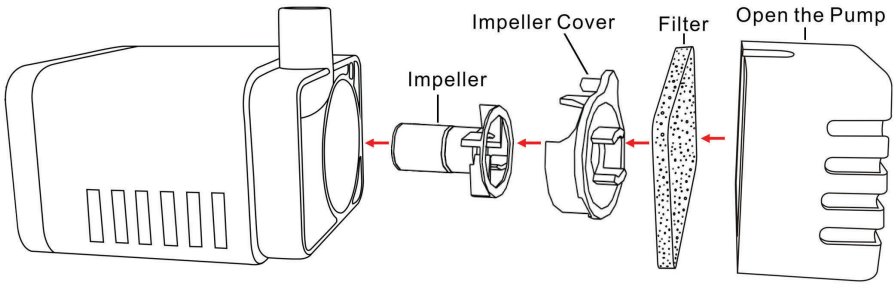
1. For safety reasons, please do not remove or change any components in the water feature. Doing so will invalidate your guarantee.
2. Do not hang the solar panel upside down, use something waterproof to plug the jack when the jack is not use.
3. Do not connect the pump to AC power source. It is only for use with DC power.
4. Use fresh water only.
5. Do not use with flammable liquids.
6. Take care not to damage the solar panel.
7. Do not use in water above 35°c.
8. Do not let the pump run dry.

## Cleaning and Maintenance

**Pump**

If the pump stops working or is running slow, you will need to disassemble and clean the pump to remove any debris/limescale from the filter and motor chamber, as shown in Fig. 3.

Fig.3

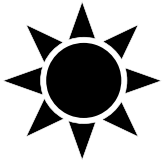



To disassemble the pump, ensure the unit is switched off. Remove the pump from the water hose and take the pump out of the water. Then, remove the pump cover, filter and impeller cover (Fig.3). Clean them with fresh water and place them back inside the pump.

**Solar Panel**

The solar panel should be cleaned with a soft cloth on a regular basis to maintain optimum efficiency.

## Pump Performance In Different Weather Conditions

| Weather | Pump On | Pump Off |
|---|---|---|
|  | Battery runs the pump and full solar charges the battery. Pump performance is maintained when the clouds pass. | Battery should be fully charged in 1 day. |
|  | Battery runs the pump and extra solar 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, the pump will not run and battery will not charge. | Battery will not charge. |

## Troubleshooting

| Problem | Potential Cause | Pump Run Time |
|---|---|---|
| Pump not operating under full sunlight. | Pump is not connected to the solar panel.<br>Impeller is blocked - to clean the pump, remove the front plate and the impeller. Use a small brush or fresh water to remove any debris. | Check connection to the solar panel.<br>Remove blockage (see cleaning and maintenance. |
| Pump is operating but water is not running through the fountainhead. | Build-up of sediment or limescale inside the pump. | Clean tubes and filter (see Cleaning and Maintenance). |

## Storage

Ensure the battery is fully charged before storing and disconnecting all cables. We recommend the use of a cover to protect the water feature from dust/damage.

## Technical Specification

| | |
|---|---|
| Product name | Broken Barrel Solar Water Feature |
| Supplier Code | GW647 |
| Lithium Battery | 3.7V-2000mAh |
| Operation Voltage | 6.2V DC |
| Water Flow Max | 220LPH |
| Water Lift Max | 0.9M |
| LED Light | 1x Piece Single LED Light |
| Cable Length | 5M |
| Solar Panel | 2W 5V |

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Marsland Road, Sale M33 3AQ

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