

DAY&NIGHT SOLAR PUMP KIT USER'S MANUAL

Design for fountain

Model No. M85952

1. COMPONENTS

1. Adaptor ;
2. Solar panel (with rechargeable battery inside the rock) ;
3. Pump with cable ;
4. Nozzle accessories

2. OVERVIEW

- 1) The solar pump is designed for indoor or outdoor fountain use, and is powered by a solar panel. In order to make the pump work, the solar panel needs to be placed in the sun to face the sunlight.
- 2) The performance of the pump depends on the sunlight intensity and the orientation of the solar panel.



3. ASSEMBLING

- 1) Unpack all components carefully.
- 2) Connect the plug on the pump to the socket on the resin rock (see the right photo for demonstration).
- 3) Make sure to place the pump fully underwater when the pump operates.
- 4) To produce the excellent fountain effect, please kindly leave the fountain head or nozzle 5-10cm above the water surface.
- 5) The solar pump is now ready to operate.
- 6) Connect the pump to the solar panel or AC /DC Adapter(Optional) when the solar energy is not available.



4. CAUTIONS

- 1) Any altering of the product itself or changing of the components is forbidden.
- 2) Do not connect the pump to any AC voltage power directly. Only 6-9V DC source is allowed, such as the output from the present solar rock.
- 3) Operate the pump in freshwater or saltwater only (never above 50°C), especially keep it away from flammable liquids.
- 4) Do not strike the solar panel.
- 5) Do not let the pump run dry.

5. CLEANING AND MAINTENANCE



If after some time the pump starts losing power or stops working, please clean up sediment in the pump shell or filter cribs. Kindly note the pump can be opened by pressing down on the bottom of the filter housing (See the above photo for demonstration). To clear the impeller, open the pump housing at the front by sliding up the front plastic cover.

***The solar module should only be cleaned with soft tissue or propriety glass cleaning solution.**

6. FUNCTIONALITY PROBLEMS

* Pump does not operate even though the solar panel is in full sunlight.

- 1) No connection to the solar panel — check connection to the solar panel.
- 2) Impeller is blocked — to clean the pump, remove the front plate and the impeller, and use a small brush or water to remove any debris.
- 3) Battery not sufficiently charged — There is an ON/OFF switch at the rear of the solar rock. Please OFF the switch and let it be shined in the sun without working for 8 hours. After a full day of sunshine to charge the battery, then ON the switch to see whether it's working now.

*Pump does operate but there is no water running through the tubes — Clear the tube and the filter to make sure the tube is through completely.

7. TECHNICAL DATA

Operation voltage	9 Volt
Power output of solar panel	1.8Watt
Maximum water lift height	0.75 Meter
Maximum flow rate	175 Liters per Hour
Cable	5 Meter
Adapter	AC110V/DC7.5V 300mA