

12W SOLAR FOUNTAIN BUILT-IN BATTERY

User Manual

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Overview

This product is powered entirely by solar energy—it requires direct sunlight on the solar panel to charge properly and operate the fountain.

Featuring a durable glass solar panel and a brushless pump, this 12w solar fountain offers faster startup, higher efficiency, and strong stability. Equipped with a built-in battery, it can even work at night. Ideal for birdbaths, fish tanks, small ponds, garden decoration, and water circulation for oxygenation, etc.

Components



Fig 1

Assembling

For visual installation instructions, you can search for the " P108D Installation Video" for the video by name for a detailed guide.

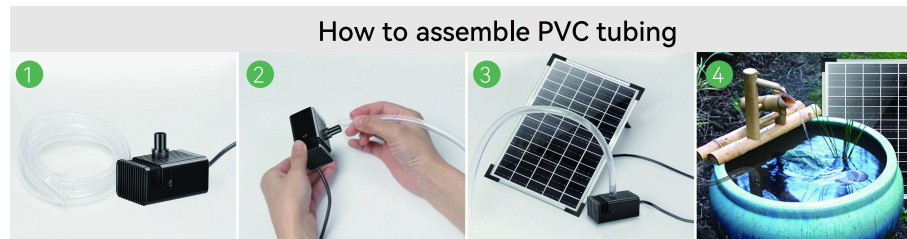


Fig 2

1. Making a water feature: Connect the pump outlet to the water inlet of a small garden water decorations with the PVC tubing as shows in Fig 2.
2. Creating a small fountain, please follow the steps (as shows in Fig 2):

- 1) As shown in Fig 2, install the stakes to the solar panel.
 - 2) Connect the foam cotton and nozzles to the water pump.
 - 3) Connect the pump with the solar panel and tighten the protective screw.
 - 4) Fully submerged the pump into water.
 - 5) It is best to keep the pump away from the bottom of the pond, so as not to suck pond waste into the pump and got block.
 - 6) To maximize fountain spout height, ensure that the fountain head is raised above the water surface as shown in Fig 3.
3. Install the solar panel on garden lawn or loose ground by inserting spikes into the ground.
4. The solar water pump is now ready to run.

Troubleshooting Steps:

(If the fountain doesn't work, please check the possible failures listed below)

- 1.Ensure the solar panel is in full direct sunlight with no shadow or charge the solar panel separately for at least 6 hours to ensure the built-in battery has enough charge.
- 2.Pump cleaning:Check the pump is not clogged with dirt or debris, please search for the "DC300 Pump Cleaning" video for detailed cleaning steps.
- 3.Make sure the pump is fully submerged in water and the nozzle is above the water surface.
- 4.Disconnect and reconnect the solar panel to activate the pump. Also, check if the cord is damaged.

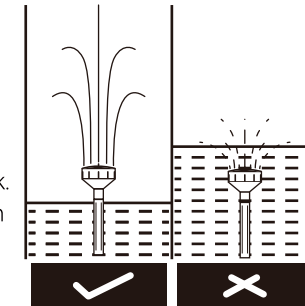


Fig 3

Water Sensor | Dry-Run Protect



Fig 4

Dry-Run Protection:
If the water level drops below the silver sensor, the pump stops automatically (Fig 4).

Noise Warning:If the pump makes unusual noise.
1.Check if the water level is insufficient, refill water until the pump is fully submerged.
2.Check if the pump is clogged, clean the pump:
① Clean the filter sponge; ② Clear the impeller; ③ Flush the pipes.

Cautions

- 1. Please make sure to place the solar panel in direct sunlight without any shadow.
It works best when facing the sun;
- 2. The pump needs to be fully immersed in water, and the nozzle top should be above the water to spray out water;

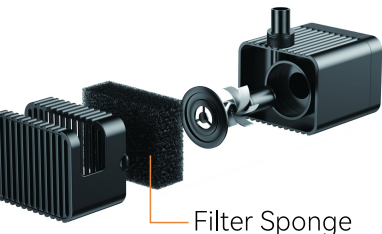
3. The pump needs to be cleaned regularly to avoid clogging with dust.

Cleaning and Maintenance

For a visual guide, you can search for the "DC300 Pump Cleaning" video on YouTube for detailed cleaning steps.

Light Cleaning (Weekly Recommended)

- 1.Disconnect the pump from the power.
- 2.Remove the pump front cover and the filter sponge.
- 3.Rinse the inside of the pump and the filter sponge to remove any debris.
- 4.Reassemble the pump and make sure the pump is fully submerged in water connect it again.
- 5.Expose the solar panel to direct sunlight to check if the fountain works.

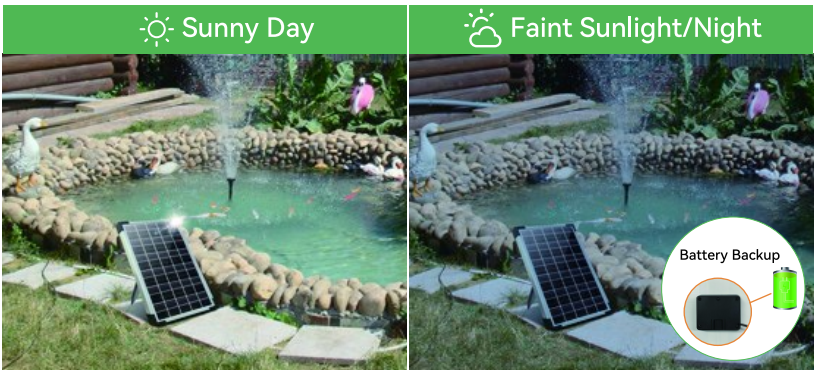


Deep Cleaning (If light cleaning doesn't help)

- 1.Remove the rotor (impeller) and the white shaft from inside the pump.
- 2.Wash all parts carefully, including the rotor and the white shaft.

IMPORTANT: Make sure to press the white shaft firmly back into place.

- If not fully inserted, the pump may still not work.
- 3.Reassemble all parts in reverse order and connect the pump.
- 4.Test again under direct sunlight.



Battery Instructions

1. How it works(Day&Night)

Time	Power Source	Key Rules
Daytime	Solar Panel + Battery	1.Strong sunlight (10:00~16:00): Runs nonstop + charges battery. 2.Weak light (cloudy/morning): Runs only if battery has charge (stops if battery is empty).
Nighttime	Only Battery	1.Runs 1~8h if battery was partially charged. 2.Runs 8~12h if battery was fully charged (6h strong sunlight).- Battery dies by end of night—needs recharging next day.

2. Why It Might "Seem Not Working"

Symptom	Reason & Solution
Pump stops in daytime	1. Weak light (cloudy/evening) → Wait for stronger sunlight. 2. Battery empty → Charge in strong sunlight for 6h.
Pump stops at night early	Battery wasn't fully charged → Charge longer next day.
Pump won't start next day	Battery died overnight (normal!) → Place in strong sunlight for 1h to restart.

Battery Function Check

To check if the battery is working:
1.Disconnect the solar panel and water pump.
2.Place the solar panel in direct sunlight for 6 hours to fully charge the battery.
3.After that, connect the pump and move it to a shaded or indoor area.
If the pump runs for at lease 4 hours without sunlight, the battery is working correctly.