

ennos sunlight pump quick guide

Step one: Getting ready

Step by step instruction for setting the sunlight pump (SLP)

DISCLAIMER: This quick guide is intended as an overview; You need to consult the operational manual for correct installation and use of the SLP.

I: Select a location



Find an even, dry surface close to the water source for the sunlight pump (SLP) and the solar panels.



- Your water source should be free of particles and stones. Building a suction well is recommended
- Keep a short distance between the pump and the solar panel because of power loss in the cable
- Avoid any shade and dirt on the panel or setting the panel array horizontal, as this will allow the accumulation of dust and debris
- Avoid direct sunlight on the SLP to avoid overheating the electronics

II: Prepare the hose



Place the suction hose into the water source. Attach the foot valve to a post that is stuck into the ground to make sure the foot valve is not touching the ground



- Check the water strainer periodically. If the strainer is dirty it leads to cavitation and damage of the SLP

III: Prime the SLP

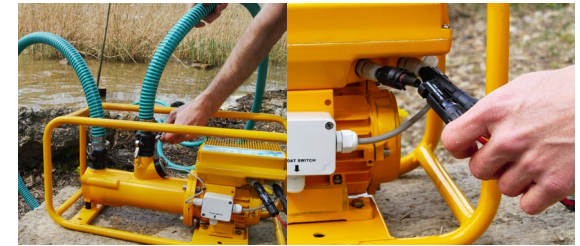


Before turning on the SLP, fill the input and output of the pump head with water. Once the SLP is set up, you do not need to repeat this step because a non-return valve stops the water from flowing back out when the SLP stops pumping.



- Running the pump without having primed it will cause the SLP to overheat and take damage

IV: Connect the SLP



1 - Water: Connect suction and delivery hose to the SLP. The suction side is marked as "IN" and pressure side is marked as "OUT" on pump housing.
2 - Electricity: Connect the SLP to the power supply (solar or battery) with the MC4 Connectors.



- Make sure the sizing and orientation of PV arrays and wiring are according to the operational manual, as errors may damage the system
- Don't make twisted cable connections, the power loss is high
- Never put too much voltage on the system! It will damage the controller. Measure the array voltage before connecting to the controller to avoid overload (max. 65V open-circuit Voltage). Refer to manual for details.

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Step two: Using the SLP

Step by step instruction for using the SLP

I: Starting the SLP



As soon as the solar panel power cable is connected, the green LED light between START and STOP should glow.



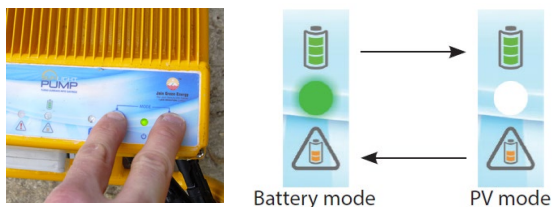
In the solar mode the SLP should turn ON automatically after a delay of about 10 seconds.

If the solar panels stops delivering energy, the SLP will automatically turn off and automatically turn on the next morning.



- In a new setup, let the pump run for 5 minutes to ensure all air is out of the pump and hoses. If too much air is in the system, the pump may stop. In this case, just restart the pump
- When SLP is stopped by low power input or by action of the float switch, it will restart after a delay of 90 seconds
- If the water output is weak despite high power input: hold the delivery hose under water to check if there is a leakage on the suction side (air bubbles in water output)

II: Changing the operation mode



To change the operation mode, keep both the START and the STOP button pressed at the same time.

Battery mode: In the battery mode the SLP needs to be started manually by pressing the START button.

If the light is blinking, the battery is not fully charged. The faster the blinking, the lower the state of charge.

When you are running in battery mode, you can turn up the power in 25% steps by pressing the start button repeatedly.



- Make sure the pump is operating in the right operating mode: solar when connected to PV or battery mode when connected to a battery.

III: Using the ennos app

You can connect the sunlight pump to your android smartphone via bluetooth and read out the data of the SLP with the ennos sunlight pump app. Download and install the app, browse through
If your phone is connected, the blue LED lights up.



IV: Warnings & error messages



Blinking red light: Warning



Water source dry



Energy input low



High temp. of electronics



Water tank full



Steady red light: Error



Battery empty



Over current



Over temperature



Over voltage



- If you are experiencing many warning messages, contact your SLP dealer
- Detailed troubleshooting in operational manual

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