

# 3000LPH Control Box Manual

## 1. OVERVIEW

This control box is using for 3000LPH solar pump. With this box this system can operate at night or cloudy day. The performance of the pump depends on the sunlit intensity and the battery states.

## 2. ASSEMBLING

2.1. Unpack all components carefully.

2.2. Unroll the connection cable, place the control box on the base.

2.3. This control box can use connection cable to connect with solar pump, or can add adapter (optional) to charge the battery only.

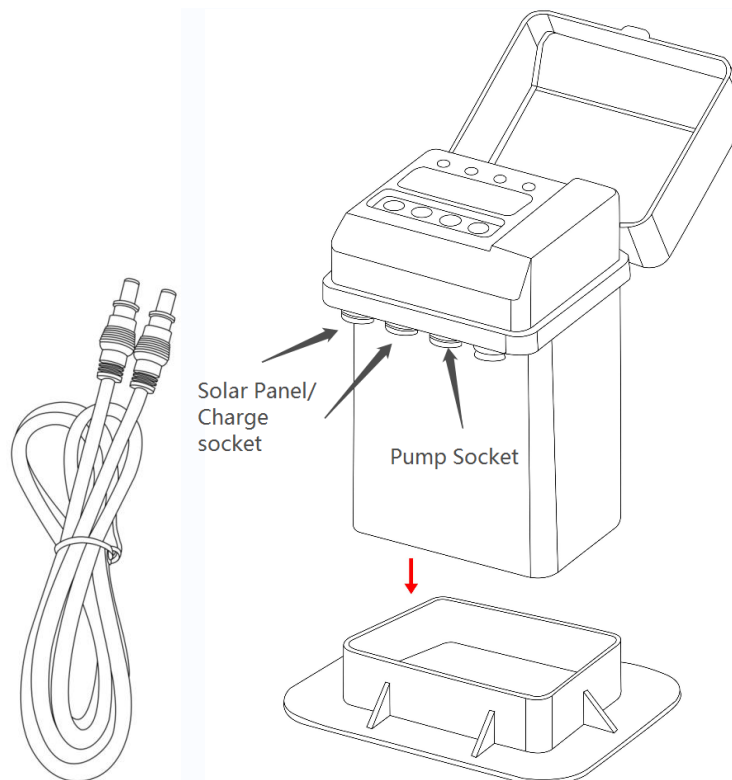
- If you need to connect with solar panel, please connect the connection cable to one of the solar panel back side “solar” socket and connect the “Solar/Adapter” socket on box. In this case the system is now ready to use.

- If you need to charge the battery only, please use the adapter (optional) plug in “Charger” socket.

2.4. Connect the pump to the “pump” socket.

2.5. Place the pump underwater and make sure that, it is fully immersed in water.

2.6. The solar pump is now ready to operate.



## 3. OPERATING INSTRUCTIONS

Once installed, allow the control box to charge at least eight hours in direct sunlight or 8 hours by adapter in order to fully charge the Battery.

3.1 Press the “on/off” button, the system is stand by. The “L4” indicator light is on.

L4 light will show battery four different status as below:

- Green solid, means the battery is full, pump can operate in “Timer”or “Auto” mode around 2 hours.
- Yellow solid, means the battery is half, pump can operate in “Timer”or “Auto” mode around 1-2 hours.
- Red solid. means the battery is almost running out, pump can operate in “Timer”& “Auto” mode around 30 min.
- Red blink, means the battery is dying, pump doesn’t operate, need to charge it at once.

3.2 Press the “Solar” button, the “L1” Green indicator light is solid, pump will operate in directly sunlight in





this mode .

3.3 Press “Timer” button, the “L2” Green indicator light will blink in two modes. Pump will run 1 or 2 hours in memory function.

- Press one time on “Timer” button, the “L2” Green indicator light will blink, the pump will operate 1 hour every single day at the same time.
- Short press twice on “Timer” button, the “L2” Green indicator light will blink twice interval, the pump will operate 2 hours every single day at the same time.

3.4 Press “Auto” button, the “L3” indicator light is solid, the pump will operate until battery runs out in this mode.

**Charging:** Once connected the solar panel with the control housing, and placed the solar panel in direct sunlight, the system is ready for charging. If customer need to check the battery status, press “on/off” button, “L4 light will shows the battery status”.

Button	Indicator light		Battery Status	Pump Performance
<b>Solar</b>	L1	Green Solid	Not showing battery status	Base on solar condition
<b>Timer</b>	L2	1H: green blink 2H: green blink twice interval	Not showing battery status	1H/ day or 2H/ day
<b>Auto</b>	L3	Green Solid	Not showing battery status	Base on battery condition
<b>On/Off</b>	L4	Green Solid		Pump can operate 2H by battery power.
		Yellow Solid		Pump can operate 1H by battery power.
		Red Solid		Pump can operate 30 minutes by battery power.
		Red Blink		Pump can't run.

#### 4. CAUTIONS

- 4.1. Any altering of the product itself or changing of the components is forbidden.
- 4.2. Do not connect the pump to any AC voltage power, it's ONLY for DC Voltage power.
- 4.3. Operate in freshwater only(never above 45°C), especially keep away from flammable liquids.
- 4.4. Do not strike the solar panel.
- 4.5. Do not let the pump run dry for long time.

#### 5. TECHNICAL DATA

Operation Voltage:	18-21V
Cable Length:	1M
Battery:	18.5V-4AH