

TRJZWA BSV-IC305

TRJZWA Solar Drip Irrigation System with Automatic Timer

Model: BSV-IC305

1. SAFETY INFORMATION

To ensure safe and correct use of this solar-powered drip irrigation system, please follow general safety guidelines when handling electrical devices and water.

- Do not attempt to modify or repair electrical components unless you are qualified to do so.
- Keep the water pump and electrical components away from direct contact with water to reduce the risk of electric shock or system damage.
- Always unplug the system when not in use or during maintenance.

2. PRODUCT OVERVIEW

The TRJZWA Solar Drip Irrigation System is designed for automatic watering of plants in various settings, including gardens, balconies, and greenhouses. It features a split solar panel design for optimal sunlight absorption and an intelligent timer for precise watering control.



Image: The TRJZWA Solar Drip Irrigation System efficiently waters multiple potted plants on a balcony, showcasing its solar charging, automatic timing, and water-saving features.

Key Features:

- **Split Solar Design:** The solar panel can be placed up to 3 meters away from the control unit for optimal sun exposure.
- **Precision Timer:** Adjustable watering duration from seconds to 60 minutes, and interval times from 1 hour to 7 days.
- **Smart Display:** Features rain delay, manual and automatic modes, water level detection, and automatic alarms for low water or pump issues.
- **Versatile Placement:** Suitable for indoor and outdoor use, mountable with stakes or screws.
- **Integrated Battery:** Built-in 3.7V 2200mAh battery for continuous operation.
- **High Flow Rate:** Maximum water flow of 400 ml/min.

3. PACKAGE CONTENTS

Please verify that all components are present in your package:

Installation Instructions



Image: A visual representation of all included accessories, including the control unit, solar panel, water pipes, drippers, T-heads, anti-siphon devices, filters, screws, and water level sensors.

- 2 x Solar Panels
- 2 x Irrigation Timers (Control Units)
- 2 x Stakes for mounting
- 2 x 15-meter Water Hoses
- 30 x Drip Emitters
- 30 x T-Connectors
- 2 x Anti-Siphon Devices
- 2 x Water Level Sensors
- 2 x Filters
- 4 x Screw Kits
- 1 x Instruction Manual

4. SETUP INSTRUCTIONS

Follow these steps to assemble and set up your TRJZWA Solar Drip Irrigation System:



Image: A detailed visual guide illustrating the 10 steps for installing the irrigation system, from cutting the water pipe to placing the filter and water level sensor in the water reservoir.

1. **Prepare Water Pipe:** Divide the provided water pipe into required lengths based on your plant layout.
2. **Connect Solar Panels:** Connect the solar panel cable to the designated port on the irrigation timer.
3. **Connect Water Level Sensor:** Attach the water level detection line to the timer unit.
4. **Connect Water Inlet:** Connect one end of a water pipe to the 'IN' port of the display unit.
5. **Connect Water Outlet:** Connect another water pipe to the 'OUT' port of the display unit.
6. **Install Filter:** Connect the filter to the water inlet pipe.
7. **Install Anti-Siphon:** Connect the outlet pipe to the anti-siphon head.
8. **Assemble T-Connectors:** Use T-connectors to branch the water pipes to individual plants.
9. **Attach Drippers:** Connect the drip emitters to the end of each branch, ensuring they are positioned near the plant roots.
10. **Position Filter and Sensor:** Place the filter and water level detection line into your water reservoir (e.g., a bucket or tank).

Mount the solar panel in a location that receives ample sunlight. The irrigation timer can be inserted into the ground with stakes or screwed to a wall or fence.

5. OPERATING INSTRUCTIONS

The TRJZWA irrigation timer features an intuitive interface for programming watering schedules.

Installation Instructions



Image: The control panel of the irrigation timer, showing the ON/OFF switch, rotary knob, and buttons for setting time, watering duration, and interval.

Control Panel Functions:

- **ON/OFF Switch:** Use to power the unit on or off.
- **SET CLOCK:** Adjust the current time on the display.
- **START TIME:** Set the desired time for the first watering cycle.
- **HOW LONG:** Adjust the duration of each watering session (from seconds to 60 minutes).
- **HOW OFTEN:** Set the interval between watering cycles (from 1 hour to 7 days).
- **OTHER:** Access additional settings and modes.

Smart Features:

- **Rain Delay:** Manually skip watering cycles during rainy periods to prevent overwatering.
- **Manual/Automatic Mode:** Switch between manual watering and programmed automatic schedules as needed.
- **Water Level Detection:** The system monitors the water level in your reservoir.
- **Automatic Alarm:** A buzzer will sound and an indicator light will flash if the water level is too low, the probe leaks, or the pump is idling or clogged.

6. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your irrigation system:

- Always unplug the system when not in use or before performing any maintenance.
- Regularly clean the water filter to prevent blockages and ensure consistent water flow.
- Periodically flush the pump with clean water to prevent mineral buildup, especially if using hard water.
- Inspect all hoses and connections for leaks or damage. Replace any worn components.
- Ensure the solar panel is clean and free of debris to maximize charging efficiency.

7. TROUBLESHOOTING

If you encounter issues with your irrigation system, refer to the following common problems and solutions:

- **No Water Flow:**
 - Check if the water reservoir is empty.
 - Ensure the filter is not clogged.
 - Verify all hose connections are secure and not kinked.
 - Check if the pump is running or if an alarm is active (indicating low water or pump issue).
- **System Not Powering On:**
 - Ensure the ON/OFF switch is in the 'ON' position.
 - Check if the solar panel is receiving sufficient sunlight to charge the internal battery.
 - Allow time for the battery to charge if it is depleted.
- **Inaccurate Watering Schedule:**
 - Re-check your programmed 'START TIME', 'HOW LONG', and 'HOW OFTEN' settings.
 - Ensure the current time is set correctly.
- **Alarm Sounding:**
 - Check the water level in your reservoir immediately.
 - Inspect the water level sensor for proper placement and function.
 - Examine the pump and hoses for any blockages or leaks.

8. SPECIFICATIONS

Model Number	BSV-IC305
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Brand	TRJZWA
Solar Panel	6V 3W
Internal Battery	3.7V 2200mAh
Max Flow Rate	400 ml/min
Hose Length	2 x 15 meters
Number of Drippers Supported	Up to 30 (included)
Material	Plastic, Silicone
Power Source	Solar Powered
Special Features	Split Solar Watering, Smart Timer, Adjustable Watering, Rain Delay, Water Level Detection
Package Dimensions	35.1 x 21.31 x 9.4 cm
Package Weight	1.94 kg

9. WARRANTY AND SUPPORT

Specific warranty information for the TRJZWA Solar Drip Irrigation System is not provided in this manual. For warranty details, technical support, or replacement parts, please contact the manufacturer or your retailer directly.