

Preventive Maintenance Procedure

Product Model: WYB2006 Solar-Powered Smart Bin

I. Recommended Maintenance Frequency

Maintenance Frequency	Description
Weekly	Visual Inspection & Basic Cleaning
Monthly	Mechanical & Electrical System Check
Quarterly	Solar Panel, Battery & Sensor Calibration
Annually	Comprehensive System Test & Safety Interlock Test

II. Specific Maintenance Items / Checklist

1. Mechanical Components

- Check if the bin door opens and closes smoothly.
- Check the compaction mechanism for abnormal noise or jamming.
- Check if the foot pedal is sensitive and reliable.
- Check if the inner bin casters move flexibly.

2. Electrical Components

- Check if the LED light strip is working properly.
- Check if the touch sensor is sensitive.
- Check if the UV disinfection lamp triggers automatically.
- Check if the voice broadcast is clear.

3. Solar & Battery System

- Clean the surface of the solar panel.
- Check if the solar panel connections are secure.
- Check battery voltage status (via the management platform).
- Check the MPPT controller operating status.

4. Sensors & Control System

- Calibrate the fill-level sensor.
- Test the blockage detection sensor.
- Check the GPS and remote communication module.

5. Safety Interlock Devices

- Test the "door open stops compaction" function.
- Check if protective covers are intact.
- Test the anti-theft alarm function.

6. Cleaning & Disinfection

- Clean the inner bin and disposal opening.
- Clean the area around the UV disinfection lamp.
- Clean external stainless-steel surfaces.

III. Common Consumables / Spare Parts List & Recommended Inventory

Part Name	Recommended Stock Qty	Remarks
UV Disinfection Lamp Tube	2 pcs	Recommended replacement annually.
Lithium Battery (12V/55AH)	1 set	Recommended replacement every 3-5 years.

Part Name	Recommended Stock Qty	Remarks
Motion Sensor Module	1 pc	For touch-to-open door sensing.
Fill-Level Sensor	1 pc	For full-bin detection.
LED Light Strip	1 pc	For illumination.
Solar Panel (67W)	1 pc	Spare part, for damage prevention.
Compaction Mechanism Seals	1 set	For preventing oil leaks and dust ingress.

IV. Manufacturer Warranty Conditions Related to Preventive Maintenance

- Warranty Period:** 10 years from the date of purchase.
- Warranty Coverage:** Covers material and manufacturing defects only (Please refer to the supplier's official warranty letter for specific details)
- Void Warranty Conditions:** (Please refer to the supplier's official warranty letter for specific details)

Improper installation or operation not per the manual.

Unauthorized modification or disassembly.

Failure to perform recommended preventive maintenance.

Damage caused by human factors, intentional damage, or natural disasters.