

Spare Parts List & Supply Support Plan

I. Key Spare Parts List & Recommended Reserve Quantities

Part Category	Specific Part Name	Recommended Reserve Qty	Remarks
Sensors	Motion Sensor (Door Open Sensing)	2%	For automatic door opening function.
	Fill-Level Sensor (Ultrasonic/Pressure Type)	1%	For full-bin detection.
	Blockage Detection Sensor	2%	For disposal opening blockage alarm.
Electrical Control	Main Control Board (with GPS/Comm Module)	3%	Core control unit.
	MPPT Solar Charge Controller	1%	Solar charging management.
	12V/55AH LiFePO4 Battery Pack	1%	Energy storage unit.

Part Category	Specific Part Name	Recommended Reserve Qty	Remarks
Mechanical Actuation	Compaction Motor/Actuator	2‰	Includes gear reduction mechanism, requires complete replacement.
	Automatic Door Drive Motor	2‰	For opening/closing the disposal opening.
	Foot Pedal Mechanical Assembly	1‰	Includes linkages, springs, etc.
Structural & Exterior	Stainless Steel Disposal Opening Cover (400x262mm)	1 pc	2.0mm thick, with powder coating.
	Inner Bin (120L with Casters)	1%	Can be replaced as a whole unit.
	Front Door Lock & Keys	2%	Recommends 2 keys per lock.
Lighting & Disinfection	LED Light Strip (Front Illumination)	2%	Waterproof type, can be replaced in sections.

Part Category	Specific Part Name	Recommend ed Reserve Qty	Remarks
	UV Disinfection Lamp Tube	3%	Recommended replacement annually.
Solar System	67W Monocrystalline Solar Panel	2%	With tempered glass protective layer.
	Solar Panel Connecting Cables & Connectors	2%	Waterproof connectors.
Display & Interface	Front Mini Display (Fill-Level Display)	1%	With touch or button interface.
	Indicator Light Module (Red/Green Dual Color)	1%	For status indication.
Other Wear Parts	Sealing Gasket (Door, Disposal Opening)	5 meters	For waterproofing and dust prevention.

Part Category	Specific Part Name	Recommended Reserve Qty	Remarks
	Screws, Bolts, Expansion Kits	2%	For installation and securing.

II. Supply Lead Time, Minimum Order Quantity (MOQ) & Warranty Coverage

Item	Description
Supply Lead Time	Standard Parts: 7-15 days (domestic stock) Special/Custom Parts: 30-45 days (production upon order)
Minimum Order Quantity (MOQ)	Sensors, Control Boards, etc. (Electronic): Typically 1-2 pcs minimum Structural Parts, Mechanical Parts: Typically 5 pcs minimum (e.g., door panels, inner bins)
Spare Parts Warranty	All spare parts carry a 6-month warranty from the date of replacement, excluding damage from human factors, improper installation, or unauthorized repair. Battery spare parts have a 12-month warranty (capacity fade not exceeding 20% of nominal value).

III. Troubleshooting Methods & Typical Replacement/Repair Time

Fault Phenomenon	Possible Causes	Troubleshooting Steps	Replacement/Repair Time
Door Does Not Open Automatically	Motion sensor failure Control board signal anomaly	1. Check sensor power supply. 2. Test sensor signal output. 3. Check control board wiring.	30-45 minutes
Compaction Not Working	Motor damaged Fill-level sensor false alarm Safety door switch triggered	1. Check motor power supply and resistance. 2. Reset the fill-level sensor. 3. Check front/rear door safety switches.	60-90 minutes
Solar Not Charging	Solar panel damaged MPPT controller failure Battery aged	1. Measure solar panel output voltage. 2. Check controller indicator lights. 3. Test battery voltage and internal resistance.	45-60 minutes

Fault Phenomenon	Possible Causes	Troubleshooting Steps	Replacement/Repair Time
No Display on Screen	Screen damaged Control board display output failure Power supply anomaly	1. Check screen ribbon cable. 2. Measure control board display signal. 3. Check 12V power output.	20-30 minutes
Alarm Continuously Triggered	Sensor false alarm Control board logic error	1. Check alarm codes on the management platform. 2. Test by disconnecting sensors one by one.	30-50 minutes

IV. Authorized Repair & Manufacturer Certification Requirements

Item	Description
Authorized Repair Qualification	Repair is recommended to be performed by ADLIS / WEIYIN . authorized service providers. Unauthorized repair may void the warranty.
Manufacturer Certified Training	Online/offline repair training courses are provided, covering electrical principles, fault diagnosis, replacement procedures, etc.
Repair Tool Requirements	Required tools: Multimeter, insulated tools, stainless steel specific screwdrivers, 12V power supply tester, sensor simulator, etc.

Item	Description
Repair Record Upload	After authorized repair, records must be uploaded via the management cloud platform, including replaced part numbers, fault codes, technician information, etc.
Manufacturer Technical Support	Remote diagnostic support is provided, allowing real-time data viewing, test command issuing, control program updates, etc., via the management platform.