

Photovoltaic Cleaning Brush (Single Head) Product Manual

Model: WSE-G02 (Version 2.0)

Product Overview

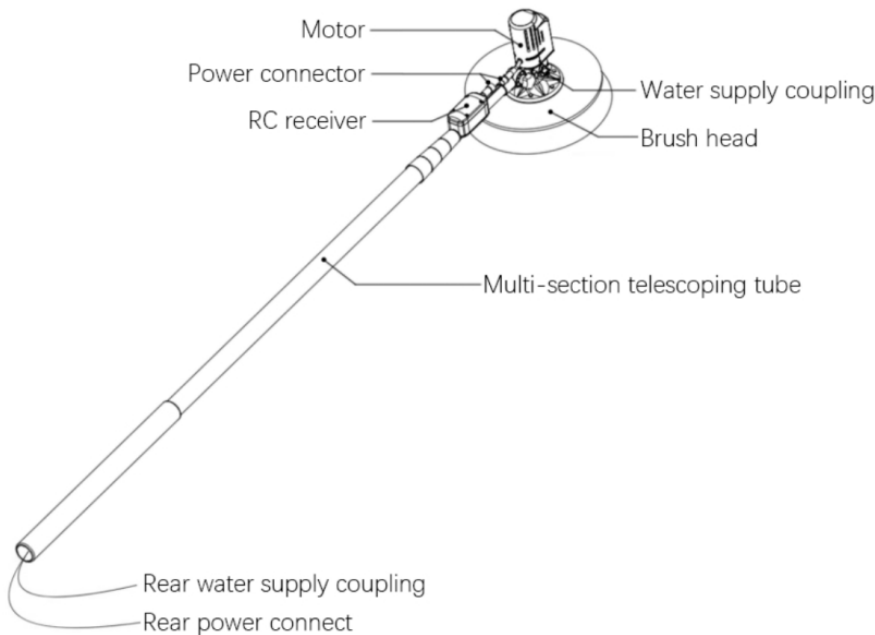
The Photovoltaic Cleaning Brush (Single Head) is a professional device designed for cleaning photovoltaic panels. Please read this manual carefully before use and keep it properly stored.

This product features a single-head design with a brush disc equipped with a water outlet. It utilizes an external water source to enable rotary spray cleaning, making it suitable for small-area or close-range photovoltaic panel cleaning.

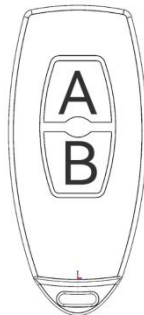
The brush head incorporates a 30° self-adaptive angle adjustment function. This ensures the brush head remains perpendicular to the panel surface during operation, preventing deviation or tilting and allowing users to control the device more effectively.

The product is equipped with a wireless remote control for turning the water supply and power on/off remotely. For the lithium battery version, users do not need to carry the battery, significantly reducing labor intensity and safety risks associated with direct contact.

Overall Machine Diagram:



Wireless Remote Controller Diagram:



Product Specifications

1. Operating Voltage: 24V
2. Motor Power:
 - Single 55W (Standard Version-Brush motor)
 - Single 85W (Max 175W) (Pro Version-Brushless motor)
3. Cleaning Type: Water-based
4. Cleaning Width: 32cm
5. Maximum Water Flow: 4L/min
6. Brush Head Speed:
 - 260 RPM (Standard Version-Brush motor for hard bristles)
 - 368 RPM (Pro Version-Brushless motor for soft bristles)

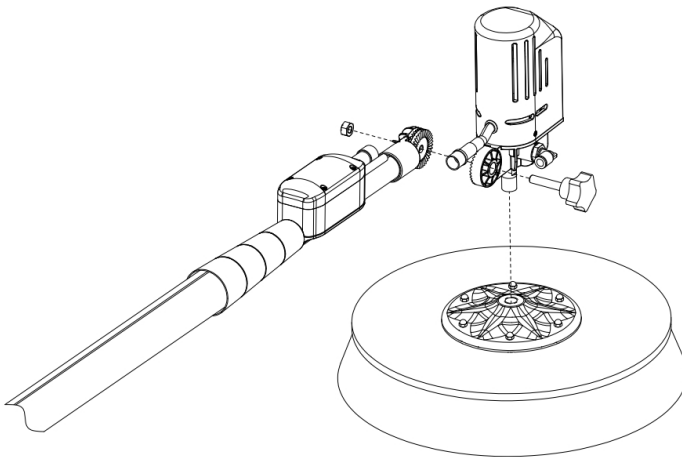
*Note: Users must select the desired motor when ordering.
7. Lithium Battery Runtime: 8~10 hours

8. Net weight of the product (excluding battery): 9Kg;
Net weight of lithium battery: 3.8Kg

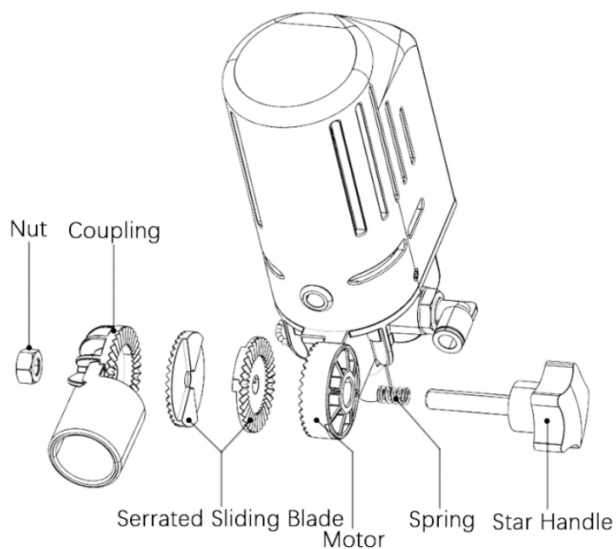
Installation Steps

1. Assembly

- Connect the brush head to the motor according to the diagram.
- Attach the telescopic pole to the brush head assembly.



2. 30° Self-Adaptive Angle Adjustment Assembly



Note: To lock the angle between the brush head and telescopic pole, remove 2 serrated sliders and 1 spring.

Usage Instructions

1. Connections

- Connect the power plug (for lithium battery version, connect the battery).
- Connect the water supply (including hoses, water pump, or faucet).
- Adjust the telescopic pole length as needed for long-distance cleaning.

2. Pre-Use Checks

- Ensure all connections are secure.
- For lithium battery version, check the battery level and recharge if low.

3. Customization

- Water/electric hybrid line length and telescopic pole length can be customized. Contact customer service for details.

Cleaning Tips

1. Method: Use water-based cleaning.

- Maintain pump pressure below 4MPa. Higher water flow improves efficiency within this range.

2. Sequence: Clean panels from top to bottom and front to back for optimal efficiency.

Precautions

1. Waterproof Warning: Lithium batteries, power adapters, pumps, and other electrical components are not waterproof. Avoid immersion or splashing.
2. Temperature: Do not operate in environments exceeding 40°C.
3. Storage: Do not leave hoses or connectors inside the device during long-term storage.
4. Safety: Children, elderly, or disabled users must operate under supervision.
5. Maintenance: Repairs must be performed by professionals.

Charging Instructions

1. Charging Indicator: Red (charging); Green (fully charged).
2. Charging Time: 8–10 hours when fully drained.
3. Battery Care: Recharge when battery level drops to 20% to prolong lifespan.

Warranty & Maintenance

1. Warranty Period

- Electrical components (battery, charger, motor, etc.): 12 months.
- Cables and wires: 12 months.
- Telescopic pole: 6 months.

2. Non-Warranty Cases

- Damage from unauthorized repairs, modifications, misuse, liquid exposure, accidents, or non-original parts.
- Exceeding national warranty periods.
- Damage due to human error or force majeure.