Spider Farmer Spider Farmer G7000

Spider Farmer G7000 LED Grow Light Instruction Manual

Model: G7000 | Brand: Spider Farmer

1. Introduction

The Spider Farmer G7000 LED Grow Light is a high-efficiency, cost-effective lighting solution designed for indoor plant cultivation. Utilizing top-quality Bridgelux diodes, this 730W grow light provides an impressive PPE of 2.85 µmol/J and PPF of 2083 µmol/s, ensuring optimal light coverage for 4x4ft commercial grow racks or 5x5ft grow tents. It features a full spectrum output to support plants through all growth stages, from seedling to harvest, promoting healthy development and increased yields.

This manual provides detailed instructions for the safe and efficient setup, operation, and maintenance of your Spider Farmer G7000 LED Grow Light.



Figure 1.1: The Spider Farmer G7000 LED Grow Light, a high-efficiency lighting solution for indoor plants.



Figure 1.2: Overview of the G7000's cost-effectiveness, highlighting its high efficiency and full spectrum capabilities.

2. Safety Instructions

Please read and understand all safety instructions before installing or operating your grow light. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Always disconnect power before installation, maintenance, or moving the light.
- Do not look directly at the LED lights when they are on. This can cause eye damage.
- Ensure the light is installed in a well-ventilated area to prevent overheating.
- Keep the light away from water and other liquids. This product is not waterproof.
- Do not touch the LED diodes directly, as this can damage them.
- Use only the provided power cord and accessories.
- This product is for indoor use only.
- Keep out of reach of children and pets.

3. Package Contents

Verify that all components are present in your package:

- Spider Farmer G7000 LED Grow Light Fixture (with 6 light bars)
- LED Driver
- Dimmer Knob/Controller
- Power Cord
- Hanging Kits (Rope Hangers, Metal Hangers)
- Daisy Chain Cable
- Instruction Manual

4. Specifications

Feature	Specification
Model	Spider Farmer G7000
Power Draw	730W
PPE	2.85 µmol/J
PPF	2083 µmol/s
Coverage Area	5x5 ft (grow tent), 4x4 ft (commercial racks)
Spectrum	Full Spectrum (2800-3000K, 4800-5000K, 660-665nm)
Dimmable	Yes (0-100% with digital display)
Daisy Chain	Up to 50 units
Control	Manual Knob, Spider Farmer App
Dimensions	44.04"L x 45.39"W x 3.04"H
Weight	17 Pounds
Material	Aluminum



Figure 4.1: Close-up of the ultra-dense Bridgelux diodes, showcasing the high PPE and PPF values.



Figure 4.2: Information on Bridgelux diodes, emphasizing their efficiency and lifespan.

5. Setup and Installation

The Spider Farmer G7000 is designed for easy setup. Follow these steps for proper installation:

1. **Unpack and Inspect:** Carefully remove all components from the packaging. Inspect the light fixture, driver, and cables for any signs of damage.
2. **Unfold the Fixture:** The G7000 fixture is designed to unfold for quick setup. Gently unfold the light bars until the fixture is fully extended.
3. **Attach the Driver:** Securely attach the LED driver to the top of the fixture or a nearby stable surface using the provided hardware. Ensure proper ventilation around the driver.
4. **Hang the Light:** Use the included hanging kits (rope hangers or metal hangers) to suspend the light fixture from the ceiling of your grow tent or rack. Ensure the light is level and securely fastened. Refer to the usage guidelines in Section 6 for recommended hanging heights.
5. **Connect Cables:** Connect the power cable from the driver to a suitable power outlet. If daisy-chaining multiple lights, connect them using the provided daisy chain cables.
6. **Positioning:** Position the light centrally over your plants to ensure even light distribution. The G7000 is ideal for a 5x5 ft grow tent setup.

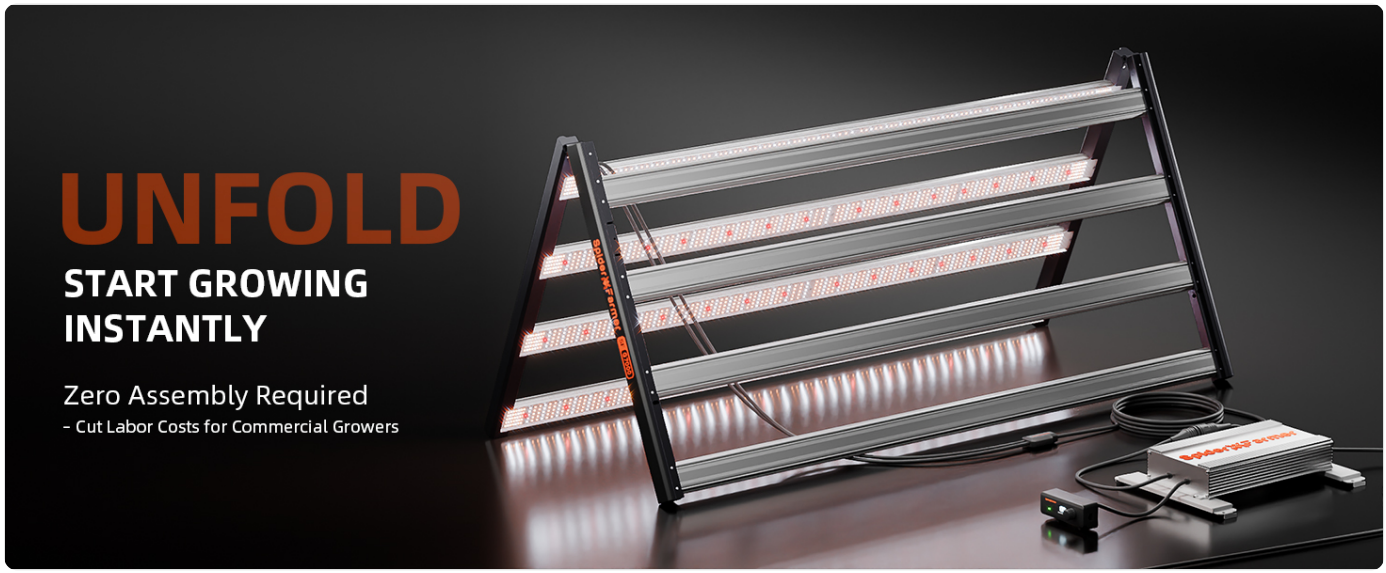


Figure 5.1: The G7000 unfolds for quick and easy setup, minimizing assembly time.



Figure 5.2: The G7000 provides optimal coverage for a 5x5 ft grow tent, supporting 9-12 plants.



Figure 5.3: An example of a complete indoor grow tent setup utilizing the Spider Farmer G7000 light.

6. Operating Instructions

The Spider Farmer G7000 offers versatile control options for precise light management.

6.1 Manual Dimming

The built-in dimmer knob allows for manual adjustment of light intensity from 0% to 100%. The digital display shows the current brightness level.



Figure 6.1: The digital display on the dimmer knob shows the precise brightness percentage.

6.2 App Remote Control

For advanced control, download the Spider Farmer App (available on Apple Store & Google Play). The app allows you to:

- Adjust brightness remotely.
- Set custom light schedules.
- Simulate sunrise and sunset.
- Enable high-temperature protection (auto-dim/off).



Figure 6.2: The Spider Farmer App interface for remote brightness adjustment.

Video 6.1: Demonstration of Smart App Control for Spider Farmer Grow Lights, showing manual mode, time slot mode, and PPFD mode features.

6.3 Full Spectrum Output

The G7000 provides a complete full spectrum (2800-3000K, 4800-5000K, and 660-665nm) essential for all stages of plant growth. This balanced spectrum promotes healthy development, enhances yields, and improves crop quality.

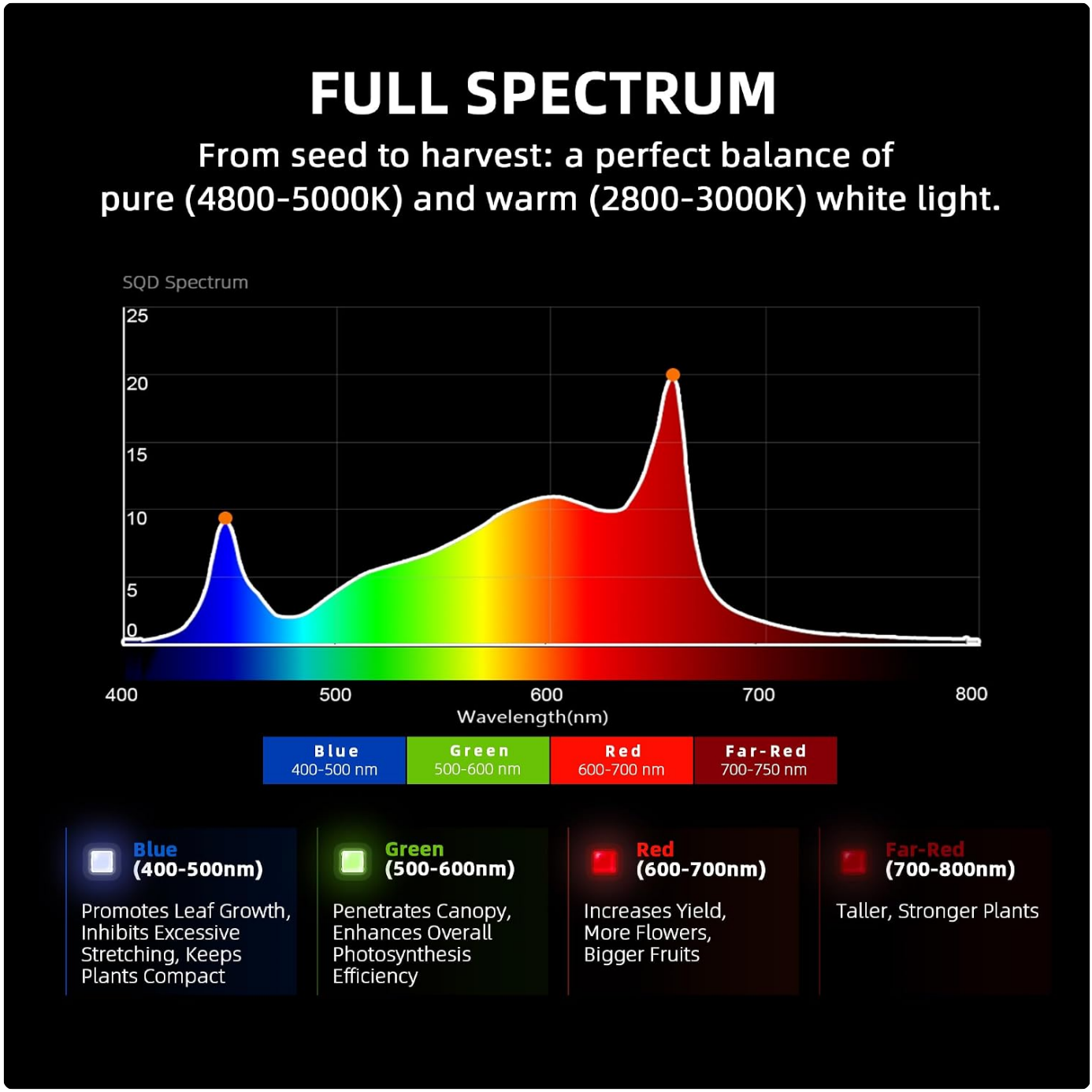


Figure 6.3: Full spectrum wavelength chart illustrating the light distribution for optimal plant growth.

6.4 Usage Guidelines (Hanging Height & Dimming)

Adjusting the hanging height and dimming level is crucial for different plant growth stages:

Stage	Working Time	Height	Dimming
Seeding	18H ON	16"	20% - 25%
Vegetative	18H ON	16"	45% - 50%
Flowering	12H ON	16"	85% - 100%

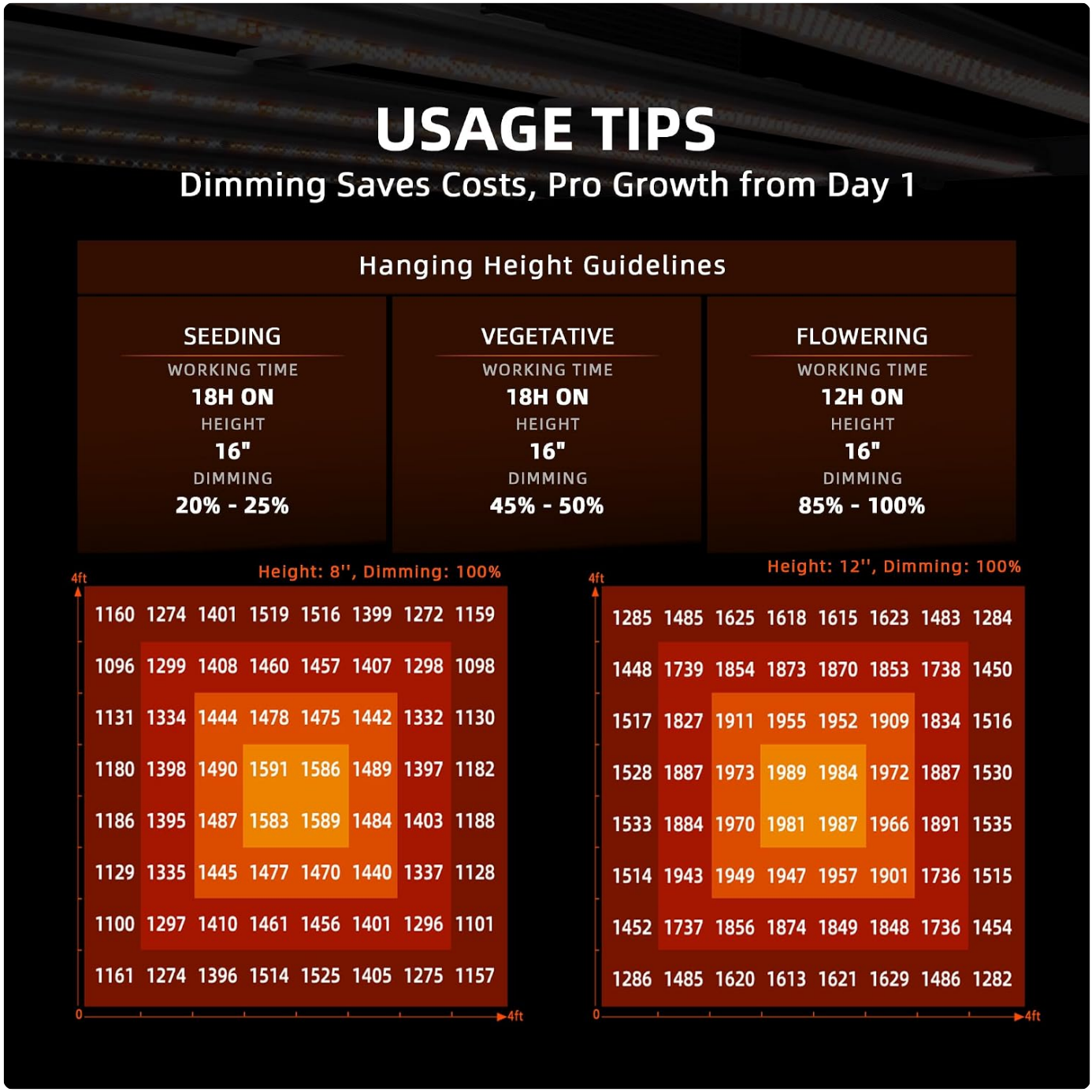


Figure 6.4: Detailed usage tips including hanging height and dimming percentages for different growth stages.

6.5 Daisy Chain Functionality

The G7000 supports daisy-chaining, allowing you to connect and control up to 50 units from a single master light. This feature is ideal for large-scale commercial setups, simplifying power and dimming management.



Figure 6.5: Illustration of daisy-chaining multiple G7000 lights for synchronized dimming control.

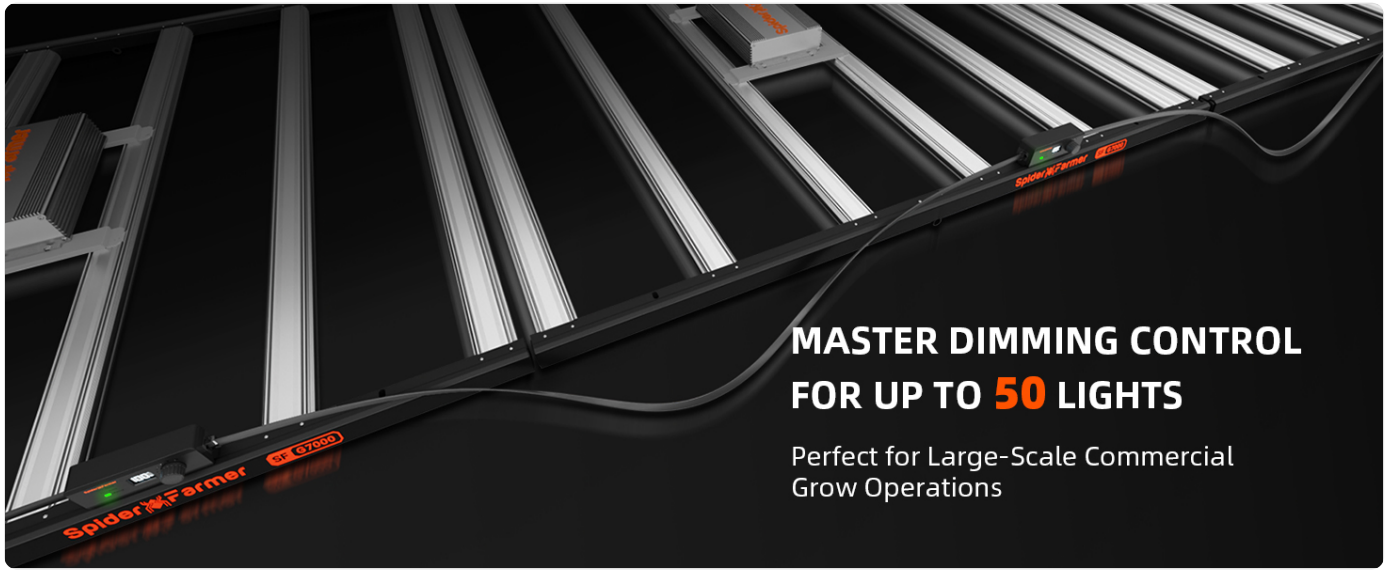


Figure 6.6: Master dimming control setup, enabling efficient management of up to 50 grow lights.

7. Maintenance

Regular maintenance ensures the longevity and optimal performance of your Spider Farmer G7000 LED Grow Light.

- **Cleaning:** Periodically clean the light bars and driver with a soft, dry cloth to remove dust and debris. Ensure the light is unplugged and cool before cleaning. Do not use liquid cleaners directly on the LEDs or electrical components.
- **Ventilation:** Ensure that the ventilation openings on the driver are not obstructed. Proper airflow is essential to prevent overheating.
- **Cable Inspection:** Regularly inspect all cables and connections for any signs of wear, damage, or loose connections. Replace any damaged cables immediately.
- **Storage:** If storing the light for an extended period, ensure it is clean, dry, and stored in a cool, dark place.

8. Troubleshooting

If you encounter issues with your Spider Farmer G7000, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Light does not turn on	No power, loose connection, dimmer set to 0%	Check power outlet, ensure all cables are securely connected, increase dimmer setting.
Light flickers or dims unexpectedly	Loose connection, power fluctuation, high temperature protection activated	Check connections, ensure stable power supply, verify ambient temperature and app settings for temperature protection.
App control not working	Bluetooth/Wi-Fi issue, app not updated, light not paired	Ensure Bluetooth/Wi-Fi is enabled on your device, update the app, re-pair the light with the app.
Uneven light distribution	Improper hanging height or positioning	Adjust hanging height and center the light over the grow area. Refer to Section 6.4.

If the problem persists after attempting these solutions, please contact Spider Farmer customer support.

9. Warranty and Support

The Spider Farmer G7000 LED Grow Light comes with an impressive**5-year coverage**, ensuring long-lasting performance and reliability. This warranty covers defects in materials and workmanship under normal use.

For technical assistance, warranty claims, or any other inquiries, please contact our U.S.-based service center. You can find contact information on the official Spider Farmer website or through your purchase platform.

Website: www.spider-farmer.com

We are committed to providing quick and efficient local support to ensure your complete peace of mind.

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