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MARS HYDRO FC6500

MARS HYDRO FC6500 LED Grow Light Instruction Manual

Model: FC6500

1. Product Overview

The MARS HYDRO FC6500 is a high-efficiency 730W LED grow light designed for optimal plant growth across all stages, from seedling to flowering. It features Samsung LM301H EVO LEDs, providing a full spectrum output with excellent uniformity and heat dissipation. This foldable light is suitable for various indoor growing applications, including 5x5 ft grow tents, and offers smart control capabilities when paired with an iConnectu Controller (sold separately).



Figure 1.1: Top-down view of the MARS HYDRO FC6500 LED Grow Light, showcasing its bar-style design.

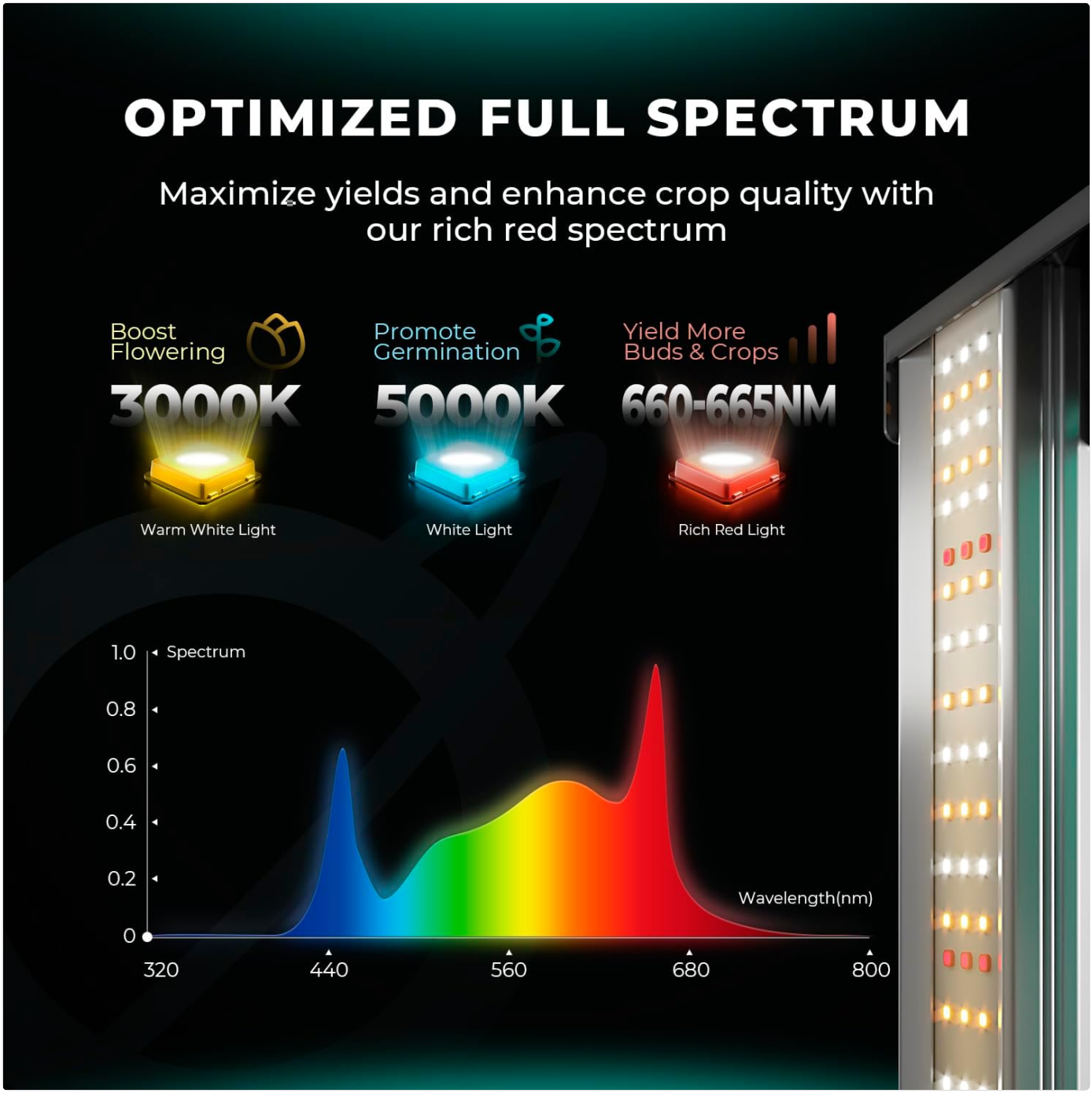


Figure 1.2: Optimized full spectrum output of the FC6500, highlighting warm white (3000K), white (5000K), and rich red (660-665nm) light for enhanced plant growth and yield.

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Video 1.1: Overview of the MARS HYDRO FC Series LED Grow Lights, demonstrating key features and benefits.

2. Safety Information

- Always disconnect power before installation, maintenance, or moving the light.
- Do not look directly at the LED lights when they are on. Eye protection is recommended.
- Ensure proper ventilation in your grow space to prevent overheating.
- Keep the light away from water and other liquids. This product is not waterproof unless specified for specific components.
- Install the light in a stable position to prevent it from falling.
- Do not attempt to modify or repair the light. Contact qualified personnel for service.

3. Package Contents

Verify that all components are present and undamaged upon opening the package.

- 1x FC6500-EVO LED Grow Light
- 1x LED Driver
- 2x Rope Ratchets
- 1x Hanging Kits (steel cables and carabiners)
- 1x User Manual



Figure 3.1: Contents of the FC6500 package, including the light fixture, driver, hanging accessories, and manual.

4. Setup

1. **Unpacking:** Carefully remove all components from the packaging. Inspect for any visible damage.

2. **Assembly:** The FC6500 features a foldable design for easy setup. Unfold the light bars until they are fully extended and flat.
3. **Driver Installation:** The LED driver can be mounted directly on the light fixture or positioned remotely using the provided cables. Ensure the driver is securely attached to prevent accidental falls.
4. **Hanging the Light:**
    - Attach the hanging kits to the designated points on the light fixture.
    - Use the rope ratchets to adjust the hanging height. For a 5x5 ft coverage area, a hanging height of 12-30 inches (30-75 cm) above the plant canopy is typically recommended, depending on the growth stage and desired light intensity.
    - Ensure the light is level and securely suspended from a sturdy structure capable of supporting its weight (approximately 26.1 pounds).
5. **Power Connection:** Connect the power cable to the LED driver and then plug it into a compatible power outlet (110 Volts).



Figure 4.1: Example setup of the FC6500 within a grow tent, illustrating proper placement and ventilation.

5. Operating Instructions

The MARS HYDRO FC6500 offers both manual and smart control options for light intensity and timing.

5.1 Manual Dimming

The light fixture includes a dimmer knob on the LED driver for manual adjustment of light intensity from 10% to 100%.



Figure 5.1: Close-up of the dimmer control and daisy chain ports on the FC6500 LED driver.

5.2 Daisy Chain Functionality

Up to 100 FC6500 730-watt grow lights can be daisy-chained together and controlled from a single main light or an external controller. Connect the lights using the provided RJ11 cables between the "CH1" and "CH2" ports on each driver.

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Video 5.1: Demonstration of the daisy chain functionality for MARS HYDRO FC series lights, showing how multiple units can be connected and controlled.

6. Smart Control Function

For advanced control and scheduling, the FC6500 can be integrated with the MARS HYDRO Smartphone APP via an iConnectu Controller (sold separately). This enables remote dimming, sunrise/sunset dimming, and precise light intensity adjustments based on your grow schedules.

6.1 Connecting to the MARS HYDRO APP

1. Download the MARS HYDRO APP from your smartphone's app store.
2. Ensure your iConnectu Controller is connected to the light fixture and powered on.
3. Follow the in-app instructions to pair your light with the app via Bluetooth.



Figure 6.1: Screenshot of the MARS HYDRO APP interface, showing the dimming control and monitoring features.

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Video 6.1: Detailed guide on operating the MARS HYDRO APP for smart control of your grow light, including pairing and dimming functions.

6.2 Scheduling and Advanced Features

The app allows you to set custom lighting schedules, including start/end times, intensity levels, and even simulate sunrise/sunset effects for optimal plant development.

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Video 6.2: Recommendations for using the MARS HYDRO Smart FC6500, focusing on advanced features and optimal settings for different growth stages.

7. Maintenance

- **Cleaning:** Regularly wipe the light bars with a soft, dry cloth to remove dust and debris. Ensure the light is off and cool before cleaning. Do not use harsh chemicals or abrasive materials.
- **Inspection:** Periodically check all cables and connections for wear or damage. Ensure the hanging system is secure.
- **Heat Dissipation:** The FC6500 features an optimized bar-style aluminum heatsink for efficient heat dissipation. Ensure adequate airflow around the fixture to maintain optimal operating temperature and prolong LED lifespan.

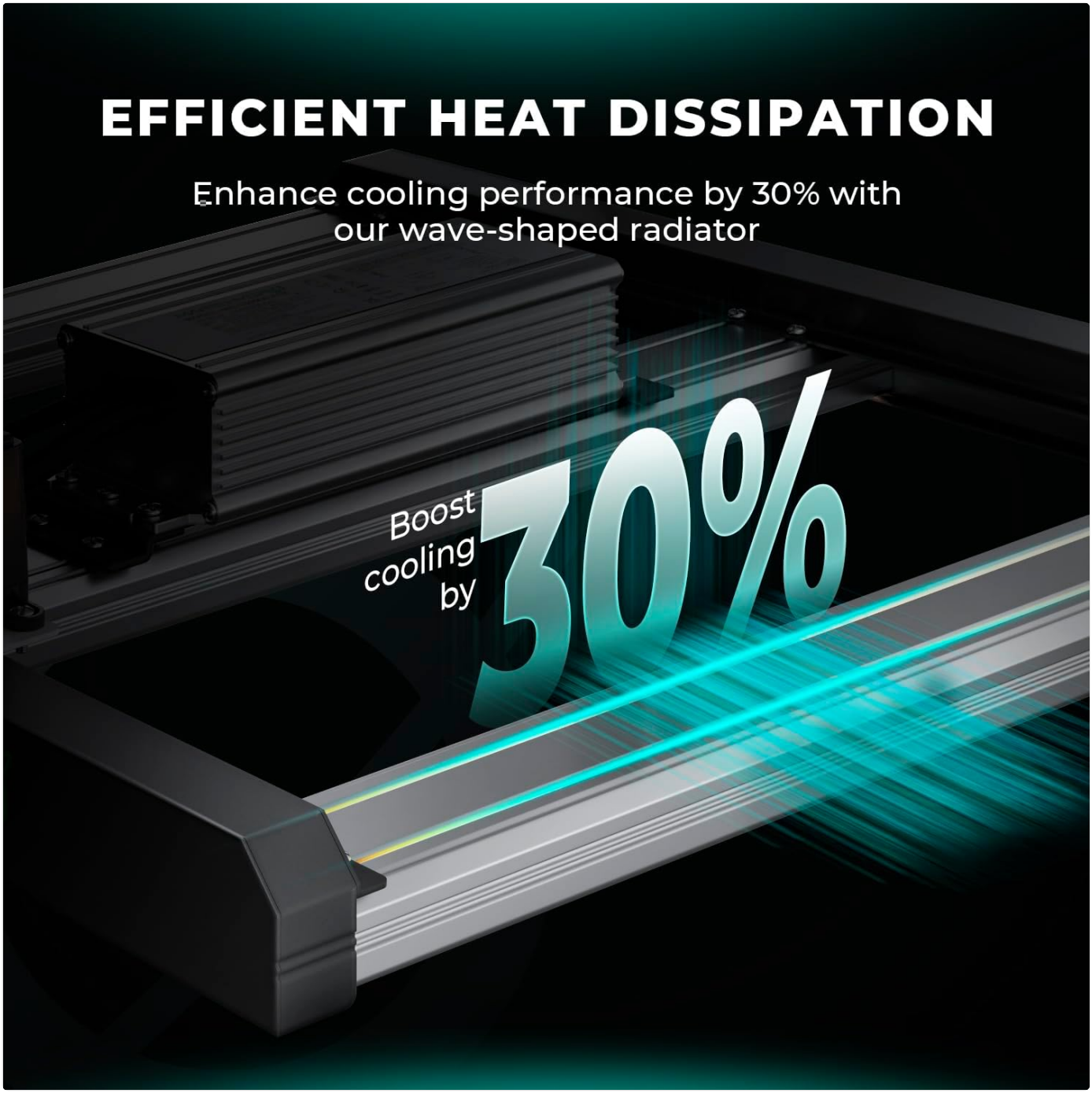


Figure 7.1: Illustration of the efficient heat dissipation mechanism of the FC6500, showing the wave-shaped radiator design.

8. Troubleshooting

Problem	Possible Cause	Solution
Light does not turn on.	No power supply; loose connection; faulty driver.	Check power outlet and cable connections. Ensure the dimmer is not set to OFF. If problem persists, contact support.
Light flickers or dims unexpectedly.	Unstable power supply; loose wiring; driver issue.	Verify stable power. Check all connections. If using smart control, check app settings. Contact support if issue continues.
App connection issues.	iConnectu Controller not connected; Bluetooth interference; app malfunction.	Ensure iConnectu Controller is properly installed. Restart app and light. Check for app updates.

Problem	Possible Cause	Solution
Uneven light distribution.	Incorrect hanging height; obstruction.	Adjust hanging height for optimal coverage (refer to PPFD map in specifications). Remove any obstructions.

9. Specifications

- **Model:** FC6500
- **Power Consumption:** 730W
- **LED Type:** Samsung LM301H EVO LEDs
- **Diode Count:** 1530 Pcs
- **PPE:** 2.95 µmol/J (overall), 3.14 µmol/J (per diode)
- **Spectrum:** 650-665nm, 2800-3000K warm white, 4800-5000K white
- **Coverage Area:** 5x5 ft (optimal)
- **Input Voltage:** 110 Volts
- **Dimensions:** 46.65"L x 26.57"W x 5.31"H
- **Weight:** 26.1 pounds
- **Material:** Aluminum
- **Certifications:** DLC, ETL

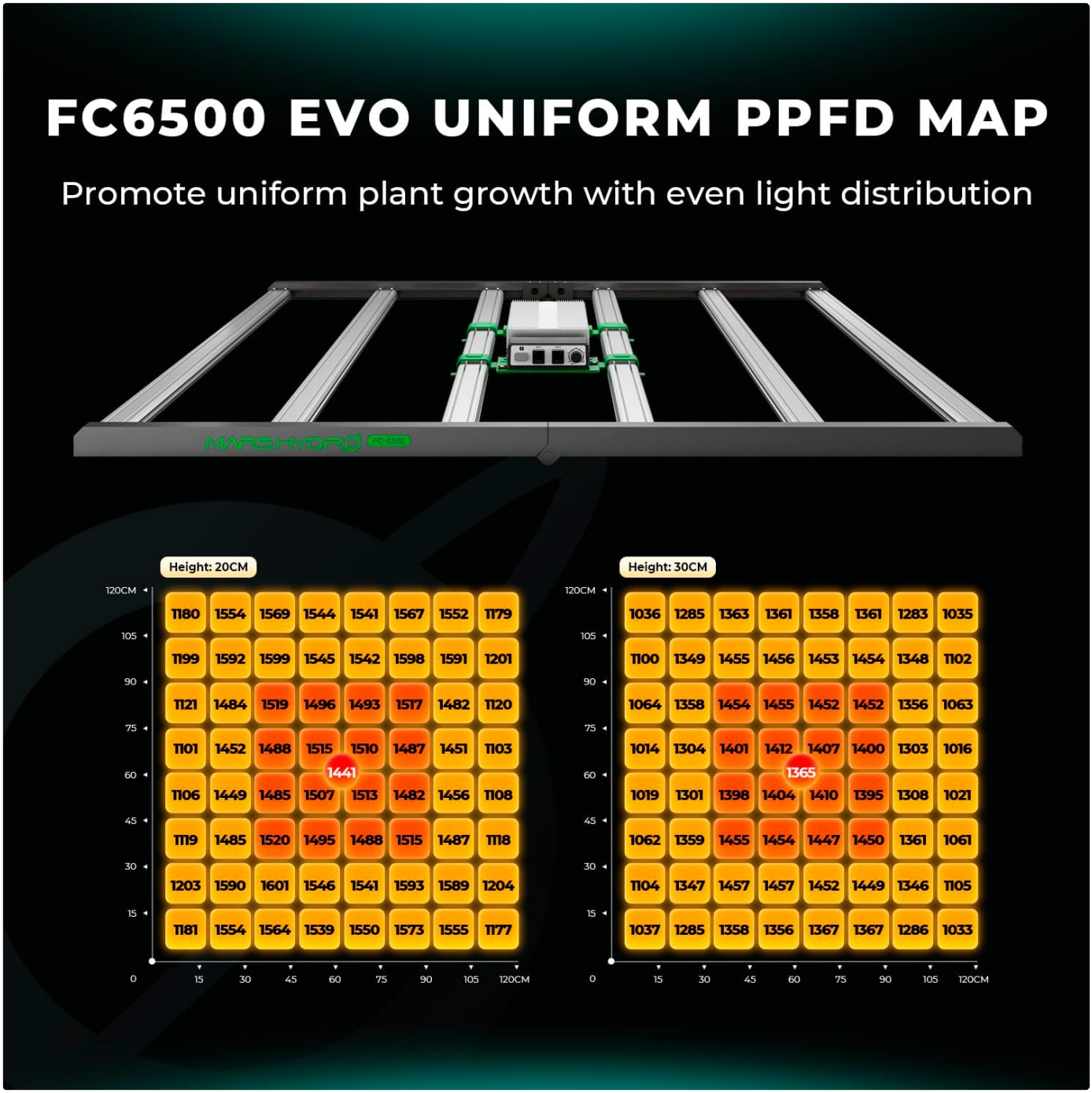


Figure 9.1: PPFD (Photosynthetic Photon Flux Density) map for the FC6500 EVO, illustrating uniform light distribution across the coverage area at different hanging heights.

10. Warranty and Support

MARS HYDRO products come with a manufacturer's warranty. Please refer to the warranty card included in your package or visit the official MARS HYDRO website for detailed warranty terms and conditions.

For technical support, troubleshooting assistance, or warranty claims, please contact MARS HYDRO customer service through their official channels. Have your product model and purchase information ready for faster service.

Note: Purchasing an extended protection plan may offer additional coverage beyond the standard manufacturer's warranty.

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