

MARS HYDRO FC-E1000W

MARS HYDRO FC-E1000W LED Grow Light Instruction Manual

Model: FC-E1000W

1. INTRODUCTION

Thank you for choosing the MARS HYDRO FC-E1000W LED Grow Light. This manual provides essential information for the safe and efficient operation of your new grow light. Please read these instructions thoroughly before installation and use, and retain them for future reference.

2. PRODUCT OVERVIEW

The MARS HYDRO FC-E1000W is a high-intensity, foldable bar-style LED grow light designed for professional indoor horticulture. It features US-based BridgeLux diodes for even light distribution and high efficiency. The light offers both smart and regular lighting modes, with optional WiFi/Bluetooth control via the MARS HYDRO App (iConnectu Controller sold separately). Its design prioritizes optimal heat dissipation and versatile application in various grow environments.

Key features include:

- **High Intensity 1000W LED Grow Light:** Achieves up to 2.8 $\mu\text{mol}/\text{j}$ efficiency and over 1,000 $\mu\text{mol}/\text{m}^2/\text{s}$ PPFD, with a maximum 3.0g yield/watt.
- **Foldable & 2-IN-1 Design:** Eliminates installation needs, offers storage flexibility, and supports smart control via the MARS HYDRO App (with optional iConnectu Controller).
- **Optimal Heat Dissipation:** Aluminum heatsink with slim profile bars reduces heat, allowing the driver to be positioned outside the grow tent.
- **Versatile Commercial Grow Lights:** Suitable for small-to-large vertical farms and grow rooms, ideal for 5x5 flowering areas or 4ft-wide commercial racks.
- **Easy Dimming Daisy Chain:** Features a broad spectrum for full-cycle growth, a dimming box for light level adjustment, and daisy-chain function for up to 30 lights.



Image: The MARS HYDRO FC-E1000W LED Grow Light with its various components, including the light bars, driver, and hanging kits, laid out for assembly.



Image: A chart comparing the performance metrics of the MARS HYDRO FC-E1000W against other grow light models, highlighting its

cost efficiency and power draw.

3. WHAT'S IN THE BOX

Upon opening your MARS HYDRO FC-E1000W package, you should find the following components:

- FC-E1000W LED Grow Light fixture (foldable bar style)
- LED Driver
- Hanging Kits
- User Manual
- Power Cord
- Daisy Chain Cable



Image: A visual representation of the items included in the MARS HYDRO FC-E1000W package, such as the light fixture, LED driver, hanging kits, and user manual.

Video: An unboxing video of the MARS HYDRO FC1000W, demonstrating the contents of the package and initial presentation of the product.

4. SETUP & INSTALLATION

The FC-E1000W features a foldable design, simplifying the initial setup. Follow these steps for proper installation:

1. **Unfold the Light Fixture:** Carefully unfold the bar-style light fixture until it is fully extended.
2. **Attach the LED Driver:** Secure the LED driver to the designated mounting points on the light fixture. Ensure all connections are firm.
3. **Connect Cables:** Plug the power cord into the LED driver. If using the daisy chain function, connect the daisy chain cable to link multiple lights.
4. **Install Hanging Kits:** Attach the provided hanging kits to the corners of the light fixture.
5. **Hang the Light:** Suspend the light fixture in your grow area using the hanging kits. Adjust the height according to your plant's growth stage (refer to recommended hanging distances in the Specifications section).
6. **Optional: Remote Driver Placement:** The detachable power supply allows for remote mounting outside the grow tent to reduce heat in the grow space.

Video: This video demonstrates the foldable design and assembly process of the 2024 New Version FC-E Series, including how to set up the light bars and driver.



Image: The MARS HYDRO FC-E1000W LED Grow Light is shown installed within a grow tent, illuminating several plants, demonstrating a typical home grow application.

5. OPERATING INSTRUCTIONS

5.1. Dimming Control

The FC-E1000W offers multiple ways to adjust light intensity:

- **Rotary Dimmer Knob:** Manually adjust the light intensity from 0-100% using the dimmer knob located on the driver.
- **MARS HYDRO App (Optional):** With the iConnectu Controller (sold separately), you can remotely control and monitor your light's intensity via WiFi/Bluetooth using the MARS HYDRO App. The app also offers smart auto-mode and

professional grow recipe settings.

- **RJ11 Cable (Optional):** Connect via an RJ11 cable to an iHub-Pro or Controller for dimming through the MarsPro App or a dedicated controller.



Image: The MARS HYDRO FC-E1000W LED Grow Light's app dimming control module, showing the iConnect-USB for Bluetooth dimming and the associated mobile app interface.

Video: A user guide for the MARS HYDRO Smart Grow Light APP, demonstrating how to control and monitor the grow light using a mobile application.

5.2. Daisy Chain Function

The daisy chain feature allows you to connect and control up to 30 FC-E1000W lights in a series. This is particularly useful for commercial growers to manage multiple fixtures from a single control point.



Image: The MARS HYDRO FC-E1000W LED Grow Light showcasing its dimming control knob and the daisy chain ports, illustrating how multiple units can be connected.

6. SPECIFICATIONS

Attribute	Value
Model Number	Smart Grow Light-FC-E-1000W
Brand	MARS HYDRO
Wattage	1000 Watts
Light Source Type	LED
Brightness	683000 lumen
Voltage	100-277 Volts (AC)
Product Dimensions	45.1"L x 44"W x 3.8"H
Item Weight	31.8 pounds
Material	Detachable Aluminum + Metal
Bulb Features	Dimmable
Mounting Type	Ceiling Mount



Image: PPFD (Photosynthetic Photon Flux Density) map for the MARS HYDRO FC-E1000W, showing light distribution and intensity at 12 and 16 inches hanging heights for a 4x4 ft area.

7. MAINTENANCE

To ensure the longevity and optimal performance of your MARS HYDRO FC-E1000W LED Grow Light, follow these maintenance guidelines:

- **Regular Cleaning:** Gently wipe the LED bars and driver with a soft, dry cloth to remove dust and debris. Ensure the light is unplugged before cleaning.
- **Inspect Connections:** Periodically check all electrical connections, including the power cord and daisy chain cables, for any signs of wear or damage.
- **Ensure Proper Ventilation:** Maintain good airflow around the light fixture and driver to facilitate heat dissipation.
- **Avoid Direct Water Contact:** While the light is designed for horticultural environments, avoid direct exposure to water or excessive humidity to prevent damage.



Image: The MARS HYDRO FC-E1000W LED Grow Light highlighting its superior heat dissipation design, featuring an aluminum heatsink and slim passive-cooled bars.

8. TROUBLESHOOTING

If you encounter any issues with your FC-E1000W, refer to the following common troubleshooting tips:

- **Light Not Turning On:**
 - Check if the power cord is securely plugged into both the light and the power outlet.
 - Ensure the power outlet is functional.
 - Verify that the dimmer knob is not set to 0% or 'Off'.
- **Inconsistent Dimming:**
 - If using the app, ensure the iConnectu Controller is properly connected and the app is updated.
 - Check the RJ11 cable connections if using an external controller.
- **Overheating:**
 - Ensure adequate airflow around the light and driver.
 - Consider relocating the detachable driver outside the grow tent to reduce ambient temperature.

9. WARRANTY & SUPPORT

MARS HYDRO offers comprehensive support for its products. The FC-E1000W is covered by a standard warranty. For specific warranty details, including duration and coverage, please refer to the warranty information provided with your product packaging or visit the official MARS HYDRO website.

For technical assistance, troubleshooting, or warranty claims, please contact MARS HYDRO customer service. You can often find support contact information on the product packaging, the official website, or through your retailer.

Optional protection plans are available for extended coverage:

- **4-Year Protection Plan:** Available for purchase.
- **Complete Protect:** A monthly plan covering eligible past and future purchases.