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## Horticulture Lighting Group Rspec

# HLG 600 Rspec FR 600W 120V LED Quantum Board Grow Light User Manual

Model: Rspec | Brand: Horticulture Lighting Group

## 1. INTRODUCTION

This manual provides detailed instructions for the safe and efficient operation of your HLG 600 Rspec FR 600W 120V LED Quantum Board Grow Light. This high-efficiency LED grow light is designed for indoor plant cultivation, offering a full spectrum white light with deep red diodes for optimal plant growth from vegetative to flowering stages. It features a dimmable power supply and a passive cooling design.



Figure 1: Front view of the HLG 600 Rspec FR LED Grow Light.

## 2. SAFETY INFORMATION

Please read all safety instructions carefully before installing or operating your HLG 600 Rspec FR grow light. Failure to follow these instructions may result in electric shock, fire, or other hazards.

- **Electrical Safety:** Ensure the power supply is disconnected before installation, cleaning, or maintenance. Only connect the fixture to a properly grounded electrical outlet with the correct voltage (120V).
- **Eye Protection:** The light emitted is extremely bright. Avoid direct eye exposure to the LED diodes when the light is on. Use appropriate eye protection if prolonged exposure is necessary.
- **Heat Management:** While designed with passive cooling, ensure adequate ventilation around the fixture to prevent heat buildup, especially in enclosed grow spaces.
- **Water and Moisture:** Do not expose the fixture to water or high humidity environments. This product is for indoor use only.
- **Installation:** Ensure the fixture is securely mounted using appropriate hanging hardware. Do not hang the fixture by its power cord.
- **Modifications:** Do not attempt to modify or disassemble the fixture. This will void the warranty and may lead to safety hazards.

### 3. PACKAGE CONTENTS

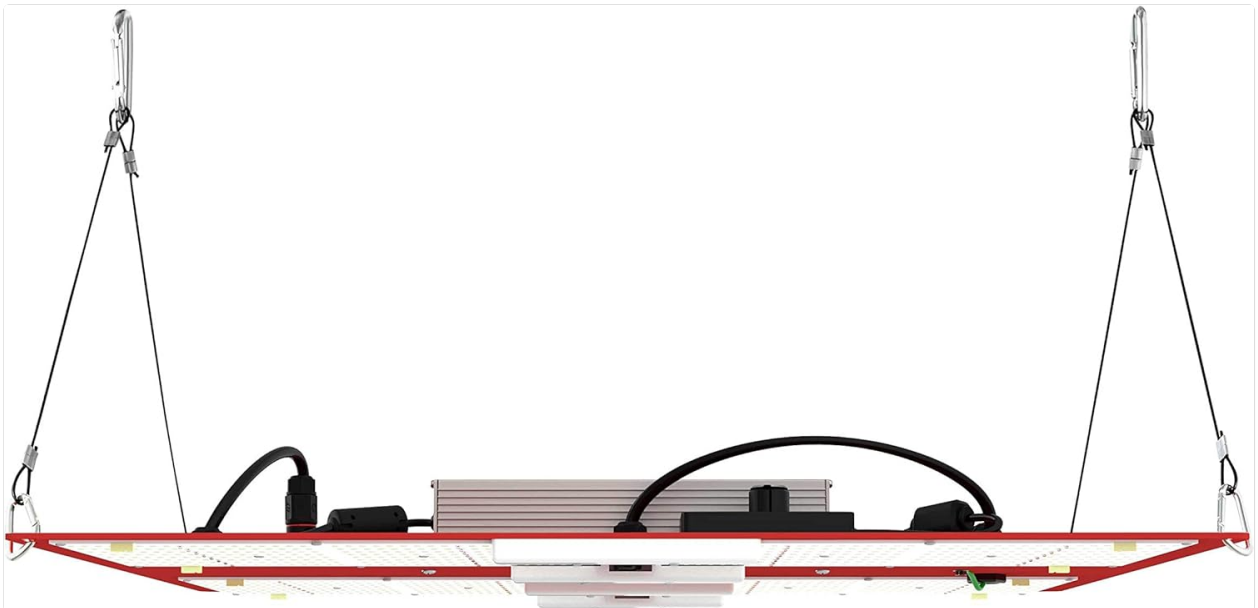
Verify that all components are present and undamaged upon opening the package:

- HLG 600 Rspec FR LED Grow Light Fixture
- Power Cord (120V)
- Hanging Hardware (e.g., adjustable rope hangers or carabiners)

### 4. SETUP AND INSTALLATION

#### 4.1 Mounting the Fixture

The HLG 600 Rspec FR is designed for overhead mounting. Use the provided hanging hardware to suspend the fixture securely above your plant canopy.



*Figure 2: Side view illustrating the hanging points for the fixture.*

1. Attach the hanging hardware to the designated points on the fixture.
2. Securely fasten the other end of the hanging hardware to a sturdy support structure in your grow area.
3. Ensure the fixture is level and stable.

#### 4.2 Connecting Power

Connect the provided power cord to the fixture's power input and then to a grounded 120V electrical outlet. Ensure all connections are secure.



Figure 3: Top view showing the power input and dimmer knob.

### 4.3 Recommended Mounting Heights

Adjust the hanging height based on the plant growth stage to optimize light intensity and coverage:

- **Vegetative Stage:** Approximately 28 inches above the plant canopy for a 5x5 ft coverage area.
- **Flowering Stage:** Approximately 40 inches above the plant canopy for a 6x6 ft coverage area.
- **General Recommendation:** 28-36 inches above the canopy.

## 5. OPERATING INSTRUCTIONS

### 5.1 Powering On/Off

Once properly installed and connected to power, the light will illuminate when the power is supplied to the outlet. Use a timer (not included) for automated on/off cycles.

### 5.2 Dimming Functionality

The HLG 600 Rspec FR features a dimmer knob located on the top of the fixture (refer to Figure 3). This allows you to adjust the light output from 100 watts to 600 watts, providing flexibility for different plant growth stages and light intensity requirements.

- Rotate the knob clockwise to increase light intensity and wattage.
- Rotate the knob counter-clockwise to decrease light intensity and wattage.

### 5.3 Optimal Usage

The full spectrum white light with deep red LEDs is suitable for all stages of plant growth. Adjust the dimming and hanging height to match the specific needs of your plants during their vegetative and flowering cycles.

## 6. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your grow light.

- **Cleaning:** Ensure the fixture is unplugged and cool before cleaning. Gently wipe the LED boards and heat sink with a soft, dry cloth to remove dust and debris. Do not use liquid cleaners or abrasive materials.
- **Inspection:** Periodically inspect the power cord and hanging hardware for any signs of wear or damage. Replace any damaged components immediately.
- **Ventilation:** Maintain good airflow around the fixture to support its passive cooling design and prevent excessive heat buildup.

## 7. TROUBLESHOOTING

If you encounter issues with your HLG 600 Rspec FR grow light, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Light does not turn on	No power, loose connection, dimmer set to minimum	Check power outlet, ensure cord is securely plugged in, rotate dimmer knob clockwise.
Uneven light distribution	Incorrect hanging height or angle	Adjust hanging height and ensure the fixture is level over the canopy.
Fixture feels excessively hot	Poor ventilation, high ambient temperature	Ensure adequate airflow around the fixture. Reduce ambient room temperature if possible.

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

## 8. SPECIFICATIONS

Key technical specifications for the HLG 600 Rspec FR LED Grow Light:

**Model:** Rspec

**Brand:** Horticulture Lighting Group

**Power Source:** Corded Electric

**Voltage:** 120 Volts

**Wattage:** 600 Watts (Dimmable from 100W)

**Light Source Type:** LED (Samsung LM301H, Deep Red 660nm)

**Spectrum:** Full Spectrum White + Deep Red

**Efficiency:** 1529 PPF at 2.60  $\mu\text{mol}/\text{j}$

**Coverage (Veg):** 5x5 ft at 28 inches

**Coverage (Flower):** 6x6 ft at 40 inches

**Product Dimensions:** 25"L x 5"W x 30"H (Note: Product dimensions from specifications are 25 x 5 x 30 inches; 22.75 Pounds. Feature bullets state 26" x 21.5" x 2.75". Using the more detailed spec.)

**Item Weight:** 22.7 pounds

**Material:** Metal (Alloy Steel)

**Finish Type:** Powder Coated

**Certifications:** ETL/UL Certified

**UPC:** 850019573145

**Part Number:** HLG600-R-FBA-2

## 9. WARRANTY AND SUPPORT

### 9.1 Warranty Information

The HLG 600 Rspec FR LED Grow Light comes with a **3-year warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

### 9.2 Customer Support

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact Horticulture Lighting Group customer support through their official website or the retailer where the product was purchased.