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## Horticulture Lighting Group HLG100-RSPEC

# Horticulture Lighting Group HLG 100 Rspec Quantum Board LED Grow Light User Manual

Model: HLG100-RSPEC
Brand: Horticulture Lighting Group

## Introduction

The Horticulture Lighting Group HLG 100 Rspec Quantum Board LED Grow Light is designed for efficient plant growth across both vegetative and flowering cycles. It features high-efficiency upgraded LM301B LEDs and a reliable passive-cooled design, providing optimal light penetration for your canopy.




Figure 1: HLG 100 Rspec Quantum Board LED Grow Light, showing its flat panel design and hanging wires.

## What's in the Box

Upon opening the package, verify that all components are present and undamaged.

- HLG 100 Rspec Quantum Board LED Grow Light
- Dimmable Mean Well Power Supply with NEMA 1-15p plug
- LED Reflector
- Hanging hardware (wires and carabiners)

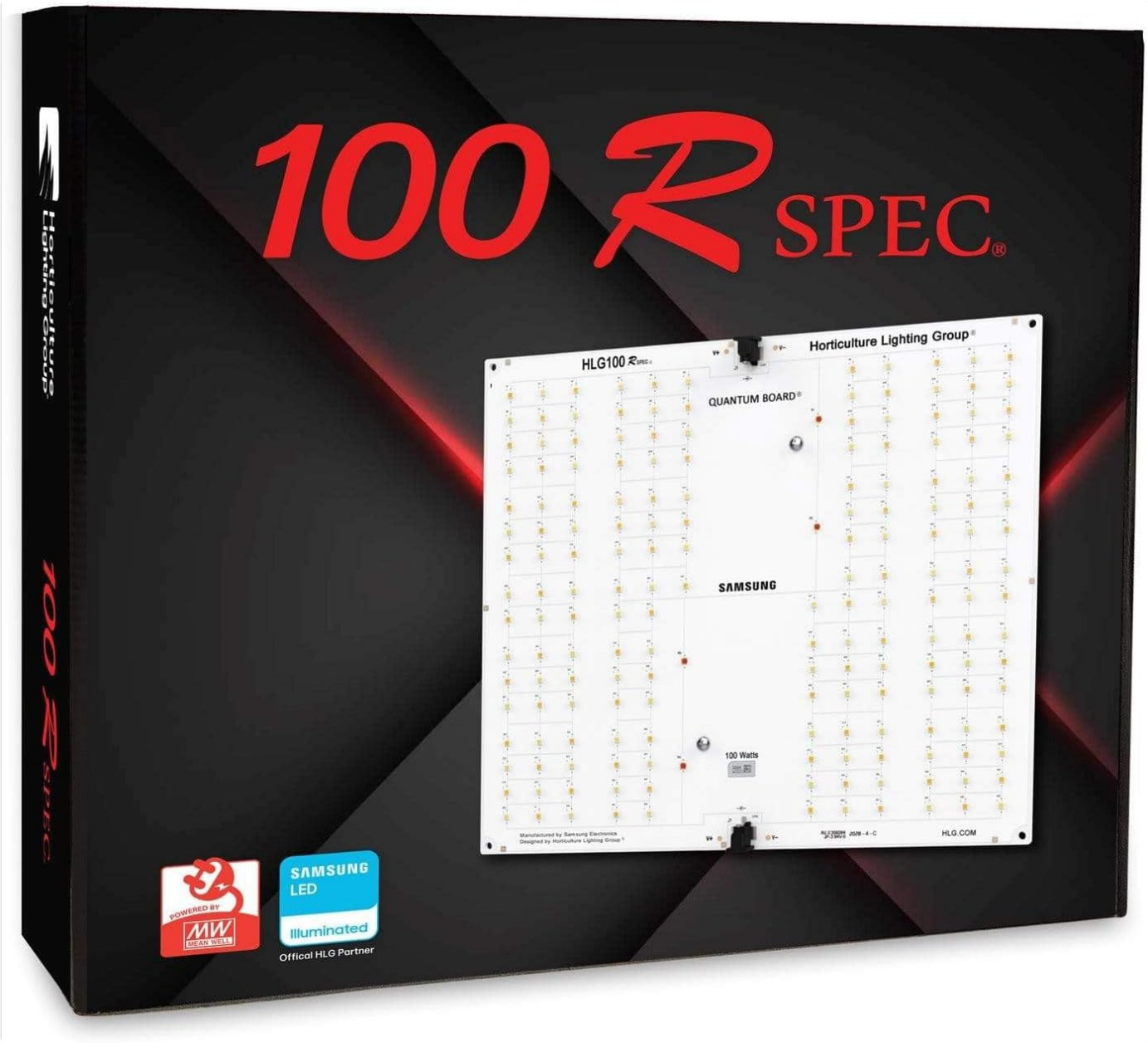



Figure 2: The HLG 100 Rspec Quantum Board LED Grow Light in its retail packaging.

## Setup

1. **Unpacking:** Carefully remove all components from the packaging. Inspect for any visible damage.
2. **Mounting:** The HLG 100 Rspec is designed for semi-flush ceiling mount installation. Attach the provided hanging hardware to the four corners of the Quantum Board. Securely hang the light fixture from a sturdy support structure in your grow area. Ensure the light is level and positioned at the desired height above your plant canopy.
3. **Power Connection:** Connect the dimmable Mean Well Power Supply to the Quantum Board. Plug the NEMA 1-15p plug of the power supply into a compatible electrical outlet. Ensure the power supply is placed in a well-ventilated area.



Figure 3: Rear view of the HLG 100 Rspec, showing the attached Mean Well power supply and wiring.

## Operating Instructions

- **Power On:** Once connected, the light will illuminate. The HLG 100 Rspec features high-efficiency LM301H Full Spectrum and LM351H Deep Red LEDs, providing a balanced light spectrum for both vegetative and bloom stages.
- **Dimming:** The included Mean Well Power Supply is dimmable. Adjust the dimmer to control the light intensity according to your plants' needs and growth stage. Refer to plant-specific guidelines for optimal light levels.
- **Light Penetration:** The diffused light from the Quantum Board design ensures better canopy light penetration, promoting uniform growth.

- **Cool Operation:** The passive-cooled design means the unit operates without fans, reducing noise and increasing reliability.

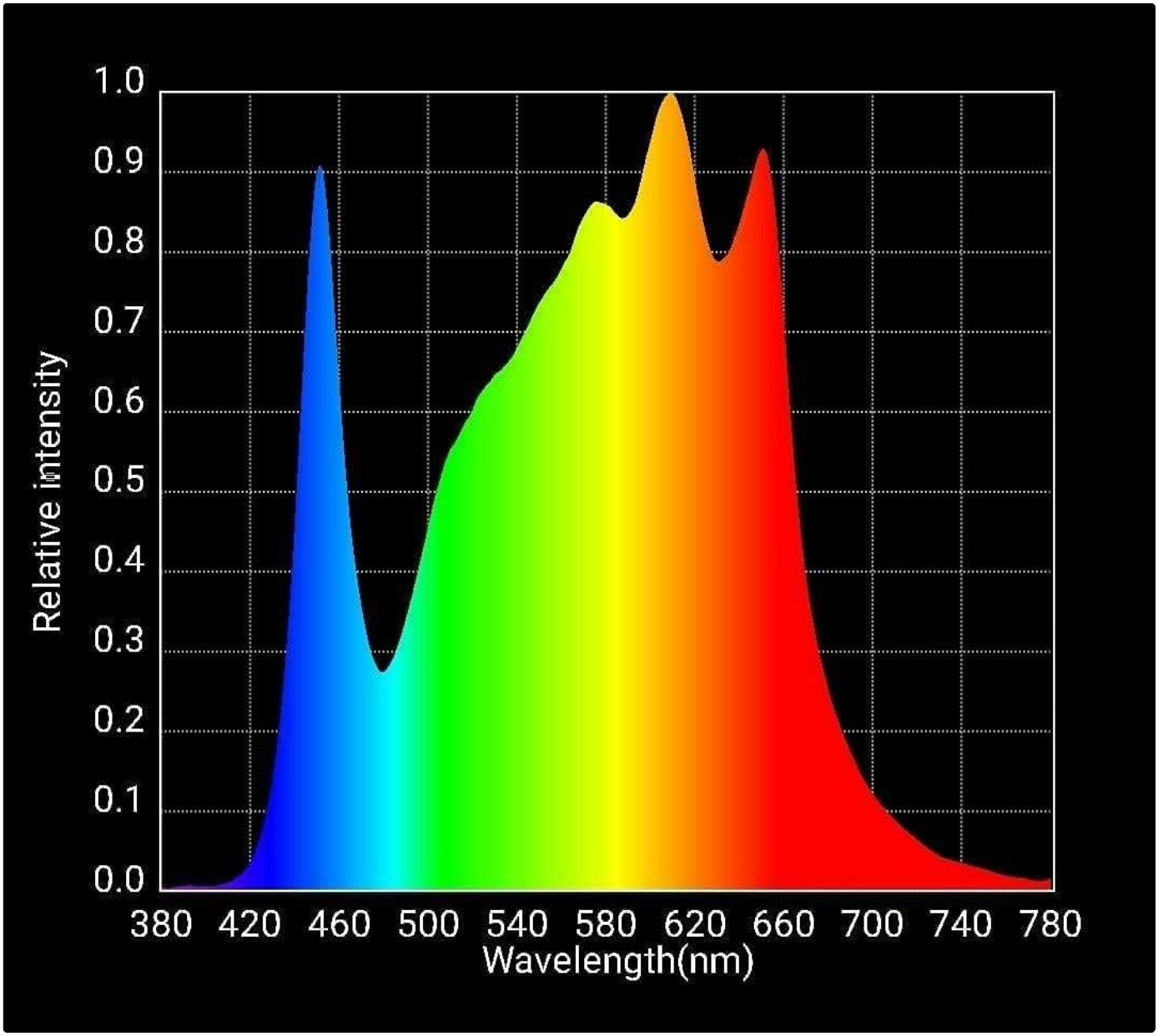



Figure 4: Relative intensity of the HLG 100 Rspec across different wavelengths (nm), illustrating its full spectrum output.

## Maintenance

Minimal maintenance is required for the HLG 100 Rspec LED Grow Light due to its passive-cooled design and durable components.

- **Cleaning:** Periodically, gently wipe the surface of the LED board with a soft, dry cloth to remove any dust or debris. Ensure the light is unplugged before cleaning. Do not use liquid cleaners directly on the LEDs.
- **Inspection:** Regularly inspect the power cord and connections for any signs of wear or damage. Ensure all hanging hardware remains secure.

## Troubleshooting

| Problem | Possible Cause | Solution |
| --- | --- | --- |

| Problem | Possible Cause | Solution |
|---|---|---|
| Light does not turn on. | No power to the unit; loose connection; faulty power supply. | Check if the power cord is securely plugged into the outlet and the light. Verify the outlet has power. Ensure the power supply is correctly connected to the LED board. |
| Light flickers or dims unexpectedly. | Unstable power supply; loose wiring; dimmer setting. | Check all connections. Ensure the power source is stable. Adjust the dimmer setting to see if the issue resolves. |
| Reduced light output. | Dust accumulation on LEDs; dimmer setting. | Clean the LED board surface. Check the dimmer setting to ensure it's at the desired intensity. |

If troubleshooting steps do not resolve the issue, please contact Horticulture Lighting Group customer support.

## Specifications

| Feature | Detail |
|---|---|
| Brand | Horticulture Lighting Group |
| Model Name | HLG100-RSPEC |
| Style | Red / Full Cycle |
| Light Source Type | LED (LM301H Full Spectrum and LM351H Deep Red) |
| Wattage | 95 watts |
| Voltage | 90 Volts (AC) |
| Product Dimensions | 11"L x 2"W x 12.8"H (Board only) |
| Item Weight | 3.8 Pounds |
| Indoor/Outdoor Usage | Indoor |
| Special Feature | Energy Efficient, Dimmable |
| Cooling | Passive Cooled Design |

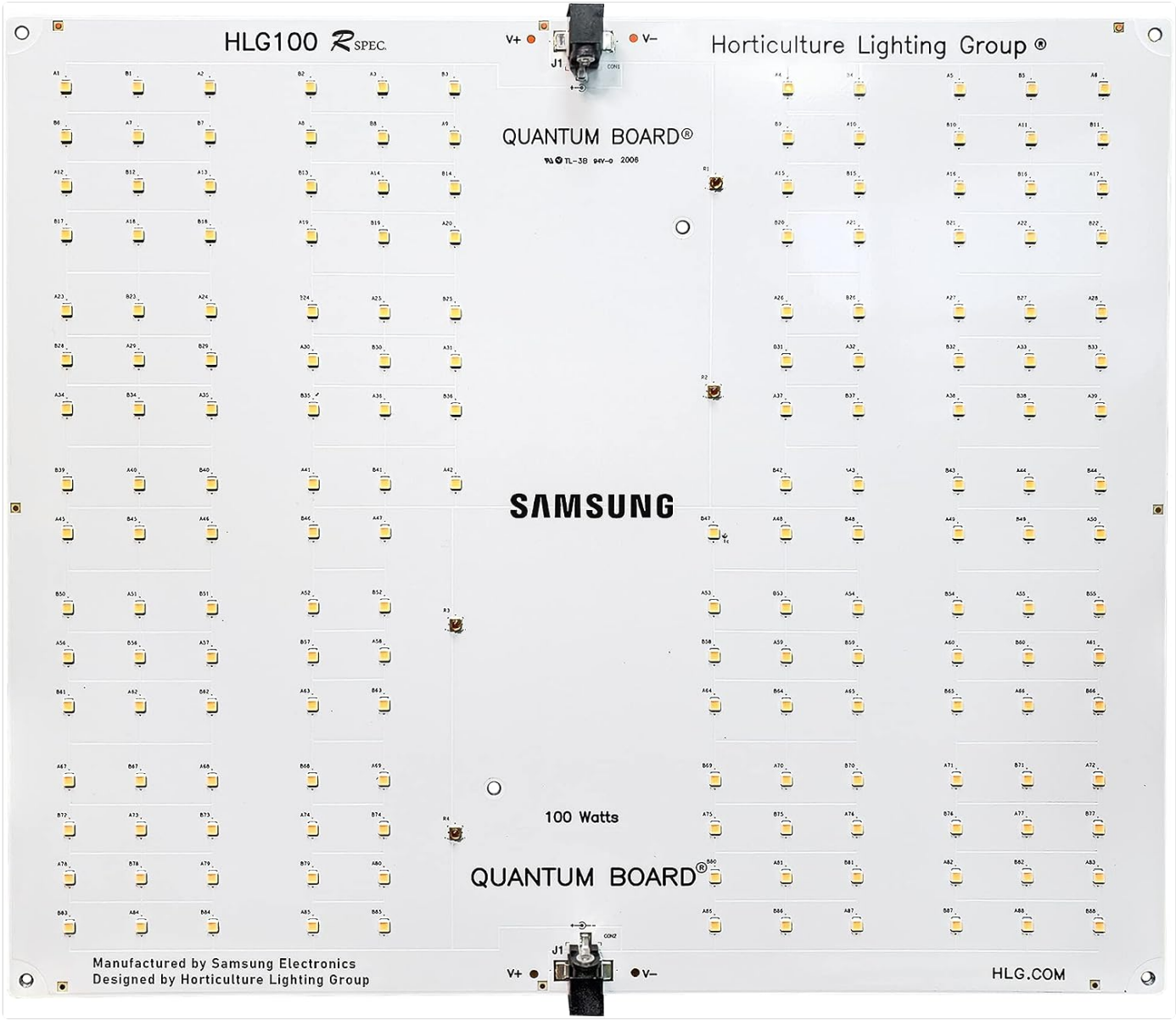



Figure 5: Detailed view of the HLG 100 Rspec Quantum Board, highlighting the LED arrangement and branding.

## Warranty and Support

For warranty information, technical support, or any inquiries regarding your HLG 100 Rspec Quantum Board LED Grow Light, please contact Horticulture Lighting Group directly.
Visit the official Horticulture Lighting Group website for the most up-to-date contact information and support resources: Horticulture Lighting Group Store

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