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Titan Controls HGC702843

Titan Controls Helios 18-12 Light 240 Volt Controller User Manual

Model: HGC702843

1. Product Overview

The Titan Controls Helios 18-12 Light 240 Volt Controller is designed to manage up to twelve (12) High-Intensity Discharge (HID) lights operating at 240 Volts. This controller features industrial-grade ballast relays for reliable performance and durability. It includes dual trigger cord sets, enabling the operator to implement two distinct light timing schedules. The unit is housed in a durable 20-gauge powder-coated steel enclosure and features a removable front panel for simplified wiring into your power system. Universal outlets are integrated to accommodate both 120 Volt and 240 Volt power cords. The system operates with an 80 Amps input power, 60 Amps output power, at 240 Volts, 60 Hz, supporting a total of 12,000 Watts.



Image 1.1: The Titan Controls Helios 18-12 Light Controller packaging, illustrating the product's branding and key features.

2. Important Safety Instructions

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

- **Electrical Hazard:** This unit operates at 240 Volts and handles up to 80 Amps input. Installation should only be performed by a qualified electrician or a person with thorough knowledge of high-voltage electrical systems.
- **Disconnect Power:** Always disconnect power at the circuit breaker before performing any wiring, installation, or maintenance on the controller.
- **Proper Grounding:** Ensure the controller is properly grounded according to local and national electrical codes.
- **Indoor Use Only:** This product is designed for indoor use in a dry environment. Do not expose to water, moisture, or high humidity.
- **Ventilation:** Ensure adequate ventilation around the controller to prevent overheating.
- **Load Capacity:** Do not exceed the maximum load capacity of 12,000 Watts or 60 Amps output. Overloading can cause damage to the unit and create a fire hazard.
- **Secure Mounting:** Mount the controller securely to a stable surface to prevent accidental dislodgement.

3. Package Contents

Verify that all items are present in the package:

- Helios 18-12 Light 240 Volt Controller Unit
- Dual Trigger Cords (pre-attached or included separately)
- Instruction Manual (this document)

4. Installation and Setup

Follow these steps for proper installation of your Helios 18-12 Light Controller:

1. **Choose a Location:** Select a dry, well-ventilated area for mounting the controller. Ensure it is away from direct heat sources, flammable materials, and areas prone to moisture.
2. **Mount the Controller:** Securely mount the controller to a wall or sturdy vertical surface using appropriate fasteners (not included). Ensure it is mounted at a height that allows for easy access to outlets and controls.
3. **Power Connection (Input):**
    - **WARNING: Ensure main power is OFF at the circuit breaker before proceeding.**
    - The controller requires an 80 Amp, 240 Volt dedicated circuit.
    - Remove the front panel of the controller to access the wiring terminals.
    - Connect the incoming 240 Volt power supply wires (L1, L2, Neutral, Ground) to the corresponding terminals inside the controller. Refer to the wiring diagram for correct connections.
    - Secure all connections tightly.
    - Replace the front panel.
4. **Light Connections (Output):**
    - Plug your HID light ballasts into the universal outlets on the controller. The universal outlets are designed to accept both 120 Volt and 240 Volt power cords.
    - Ensure that the total wattage of all connected lights does not exceed 12,000 Watts and the total amperage does not exceed 60 Amps.
5. **Trigger Cord Connections:**
    - The controller includes dual trigger cord sets. These cords are used to connect external timers (e.g., Titan Controls Apollo Series 24 HR Timers) that will dictate the on/off cycles for your lights.
    - Connect each trigger cord to its respective external timer.
    - The dual trigger cords allow for two independent lighting schedules. For example, you can set one group of lights to operate on a 12-hour cycle and another group on an 18-hour cycle.
6. **Power On:** Once all connections are secure and verified, restore power at the circuit breaker.

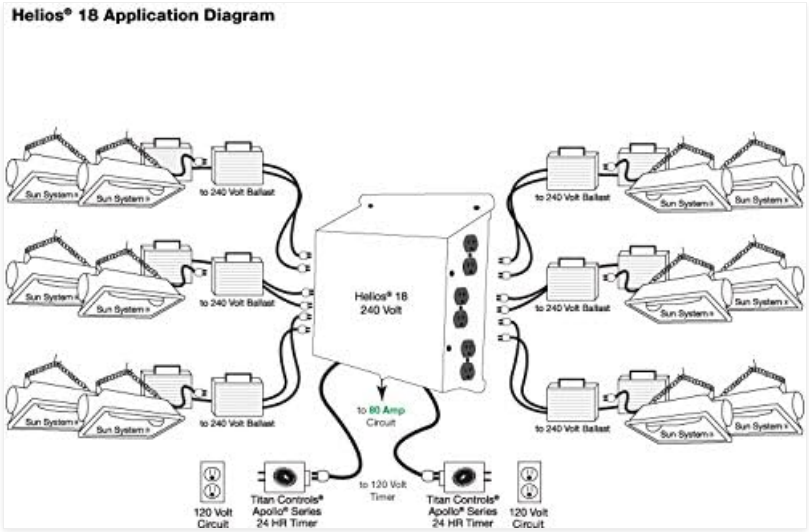


Image 4.1: Application diagram illustrating the wiring of the Helios 18-12 Light Controller with multiple light systems and external timers.

5. Operation

The Helios 18-12 Light Controller operates by receiving signals from external timers connected via its dual trigger cords. It does not have built-in timing functions.

- **Setting Schedules:** Use your external 24-hour timers (e.g., Titan Controls Apollo Series) to set the desired on/off periods for each group of lights connected to the controller.
- **Dual Schedules:** The two trigger cords allow for independent control of two separate lighting schedules. Ensure that the lights you wish to control together are connected to the same trigger circuit.
- **Manual Override:** Some external timers may offer a manual override function. Refer to your timer's instruction manual for details on manual operation. The controller itself does not have a manual override for the light circuits.
- **Power Indicator:** The controller may feature an indicator light to show that it is receiving power.

6. Maintenance

Regular maintenance ensures the longevity and safe operation of your controller.

- **Cleaning:** Periodically wipe the exterior of the controller with a dry, soft cloth. Do not use liquid cleaners or solvents. Ensure power is disconnected before cleaning.
- **Inspection:** Regularly inspect all wiring connections for tightness and signs of wear or damage. Check power cords for fraying or cracks.
- **Ventilation:** Ensure that the ventilation openings on the controller are not obstructed by dust or debris.
- **Relay Check:** Listen for consistent clicking sounds from the industrial-grade ballast relays when the lights switch on and off, indicating proper operation.

7. Troubleshooting

If you encounter issues with your Helios 18-12 Light Controller, refer to the following troubleshooting guide:

- **Lights Not Turning On:**
  - Check if the main power supply to the controller is active.
  - Verify that the external timers are correctly set and functioning.
  - Ensure all light ballasts are securely plugged into the controller's outlets.
  - Inspect light bulbs for proper installation and functionality.

- Check internal wiring connections (with power disconnected) if the front panel was removed for installation.

- **Lights Not Turning Off:**
  - Check the settings of your external timers to ensure they are programmed correctly.
  - Ensure the trigger cords are securely connected to the timers and the controller.

- **Intermittent Operation:**
  - Inspect all power and trigger cord connections for looseness.
  - Ensure the controller is not exposed to excessive heat or humidity.
  - Verify that the total load does not exceed the controller's specifications.

- **No Power Indicator:**
  - Check the circuit breaker for the dedicated power circuit.
  - Ensure the main power input wiring to the controller is correct and secure (with power disconnected).

If troubleshooting steps do not resolve the issue, contact customer support.

8. Technical Specifications

Model Number	HGC702843
Input Voltage	240 Volts
Input Amperage	80 Amps
Output Amperage	60 Amps
Frequency	60 Hz
Max Wattage	12,000 Watts
Number of Lights Controlled	Up to 12 HID lights
Relay Type	Industrial-grade ballast relays
Enclosure Material	20 gauge powder-coated steel
Control Method	External timer via dual trigger cords
Dimensions (Approx.)	Refer to product packaging for exact dimensions
Weight	11.4 Pounds (approx.)

9. Warranty Information

This Titan Controls Helios 18-12 Light Controller is covered by a manufacturer's 3-year warranty from the date of purchase. This warranty covers defects in materials and workmanship under normal use. It does not cover damage resulting from misuse, abuse, improper installation, unauthorized repairs, or acts of nature. Please retain your proof of purchase for warranty claims.

10. Customer Support

For technical assistance, warranty claims, or further information regarding your Titan Controls Helios 18-12 Light Controller, please visit the official Titan Controls website or contact their customer service department.
Online Resources: Visit the Titan Controls Store on Amazon
When contacting support, please have your model number (HGC702843) and proof of purchase readily available.

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