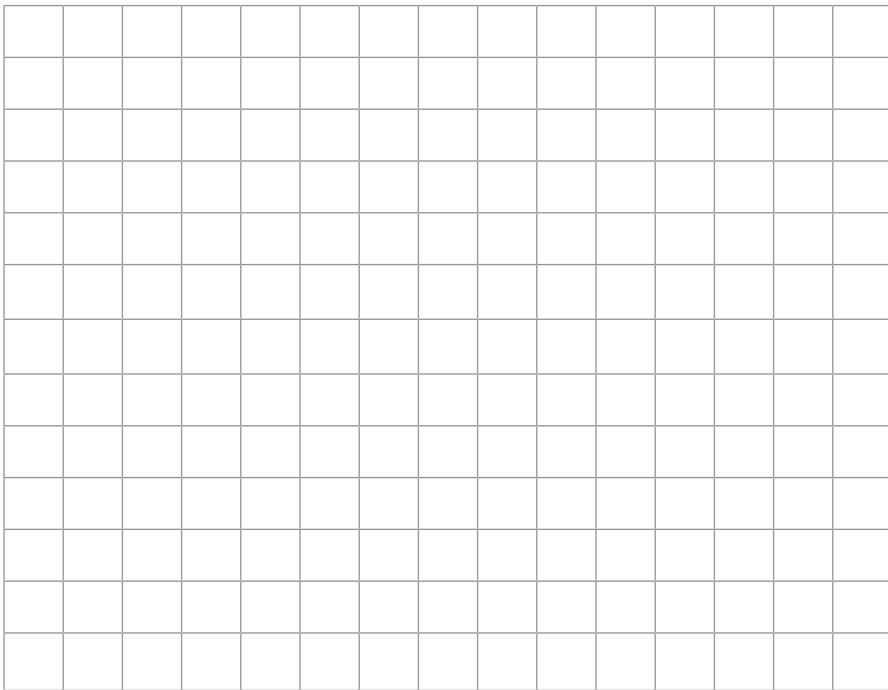


Notes:

1 Square = 1 Foot



TITAN[®]
CONTROLS

HELIOS[®] 18

12 Light - 240 Volt Controller Instruction Manual



Helios® 18

- Warnings & Cautions
- Helios® 18 – Lighting Controller Overview
- Instructions for Operation
- Troubleshooting Tips
- Controller Specifications
- Installation Examples
- Warranty Information
- Service and Repair Program

Warnings & Cautions

- Read all instructions before operating controller.
- This controller is designed for use with MAGNETIC OR ELECTRONIC BALLASTS.
- Do not put your controller in an area where it can get wet or sprayed.
- Mount your controller securely to the wall using hardware provided.
- When using “bug bombs” in area, cover controller completely to avoid corrosion.
- There are no serviceable parts in controller. Do not attempt to repair the unit.
- Do not put paperclips, tools, etc. into unit. Possible electrocution may occur.
- Make sure to verify your power source prior to wiring controller.
- Check that all equipment that will be activated by this controller is the proper voltage.
- This controller is designed for ‘Inside Use’ only.
- Avoid placing the controller near heat generating sources.
- Use caution when operating controller in extremely humid environments.
- Do not use controller for purposes other than the unit was designed to function.
- Use controller within defined environmental specifications.
- Ask your Dealer for tips and techniques regarding the use of this controller.
- Be conscientious when disposing of any products.
- Enjoy your Titan Controls® lighting controller for years to come!

WARRANTY SERVICE: Please read warranty information first

If after reviewing the troubleshooting tips the unit will still not work, you can return it to the Dealer where you purchased the controller. They will be able to further evaluate the unit and test its various components and quite possibly will be able to identify and/or fix any problems. If the Dealer is unable to fix the unit, they will return it to us for factory repair.

You may also contact us directly for technical support. If we cannot help you resolve the problem over the phone, we will issue you a RMA # (return merchandise authorization) authorizing you to return the unit to us for factory reconditioning (if the unit is under warranty). Contact the number below for a RMA and shipping address. Complete the form below and include it with your unit. Also please write the RMA # on the outside of the box.

Please package the unit in its original packaging. If it is damaged in shipment we cannot be responsible.

Once we receive the unit back, we will repair the controller within 48 hours (business) and return it to you freight prepaid via UPS ground shipment.

Include the following if returning directly to Titan Controls®

- Proof of purchase
- This completed form
- RMA # on the outside of the box

Return Merchandise Authorization Number (Required)

Company Name: _____

Contact Name: _____

Address: _____

Phone #: _____

Email address: _____

What is the nature of the problem? _____

Send to your nearest location – shipping address will be given when the RMA # is issued:



www.titancontrols.net

For technical assistance call us at 1-888-80-Titan or 1-888-808-4826.

Representative available Monday – Friday, 8 a.m. – 5 p.m. PST.

Warranty Information

- Titan Controls® warrants the original purchase of this product against defects in material and workmanship under normal use for three (3) years from the date of purchase.
- During the warranty period, Titan Controls® will, at our option, and without charge, repair or replace this product if the controller or any of its components fail or malfunction.
- All returns or repairs must be accompanied by a Return Merchandise Authorization (RMA) number prior to any service of the product.
- This warranty is expressly in lieu of all other warranties, expressed or implied, including the warranties of merchantability and fitness for use and of all other obligations or liabilities on the part of the seller.
- This warranty shall not apply to this product or any part thereof which had been damaged by accident, abuse, misuse, modification, negligence, alteration or misapplication.
- Controllers with serial numbers or date tags that have been removed, altered or obliterated; broken seals or that show evidence of tampering; mismatched board serial numbers or nonconforming parts; are excluded from coverage.
- Titan Controls® makes no warranty whatsoever in respect to accessories or parts not supplied by Titan Controls®.
- Monetary refunds of the warranty will not be given.
- The Buyer assumes all responsibility regarding the use & installation of this controller.
- All warranty service is provided through the factory or an authorized service representative.
- This warranty shall apply only to the United States, including Alaska, Hawaii and territories of the United States and Canada.
- Defective controllers need to be returned with the “proof of purchase” receipt.
- For additional warranty information, contact a Titan Controls® Technical Service Representative or your Dealer. Service Representative available for help **Monday - Friday, 8 a.m. to 5 p.m. PST. We are closed most major holidays. Call toll free: 1-888-808-4826.**
- NOTE: Titan Controls® is a controller manufacturer. All sales offerings to the public are done through a nationwide group of Dealers. No sales offerings will be made directly to the general public.

Service and Repair Program

- For all service and repairs please contact our Technical Service Representative for a Return Merchandise Authorization (RMA) number. Service Representative available for help **Monday - Friday, 8 a.m. to 5 p.m. PST. We are closed most major holidays. Call toll free: 1-888-808-4826.**
- All factory service & repairs will be completed within 48 hours of receipt of controller and after authorization by customer for repairs.
 - Titan Controls® will, at its discretion, repair or replace the controller.
 - Factory calibration services are available for all Titan Controls®.
 - Returning Units: Please contact your retail store for returns.

Helios® 18 – 240 Volt / 12 Light Controller Overview

The Helios® 18 lighting controller is specifically designed for use with high intensity discharge (HID) lighting systems. The controller will operate your lights for any sequence over a 24 hour period by using the dual 120 Volt relay activation cord set and plugging them into a 24 hour wall timer. This dual trigger timing system allows the grower to run two different timing schedules (i.e. one 12 hour light schedule & one 18 hour light schedule) if desired. It's like having two separate six (6) light controllers in one! The system can handle up to a maximum of twelve (12) 1000 watt HID metal halide or high pressure sodium (HPS) grow lights. This lighting controller provides up to 60 amps of capacity on a standard 240 volt circuit. The Helios® 18 is built with only the highest quality components and will provide the user with years of trouble free service.

Instructions for Operation

- Installation by a licensed Electrician is required to maintain manufactures warranty
- DO NOT install this controller by yourself if you DO NOT fully understand these instructions. High Voltage is dangerous!
- Securely mount your Helios® 18, using the mounting hardware included, to the wall near your grow area and away from any spray/water/mist, etc.
- Remove the 7 black screws that attach the front panel of the Helios® 18 to the chassis. Detach front cover and carefully set to the side. (See Figure A)
- Connect your incoming 240 Volt power to the terminal block and torque lug screw to 120 IN LBS, using a 3/16” allen wrench. Improper torquing may result in loose connections and will void your warranty. Verify that all wiring connections are tight and there are no loose connections. (See Figure B)
- Re-attach front panel to the back chassis using the 7 black screws. Test that the Helios® 18 is functioning properly upon installation. Activate power to controller from panel. Using the left trigger cord, plug into a 120 Volt outlet to engage relay. Take a volt meter and test the 240 Volt power output and verify that you've got 240 Volt power to each outlet on left side. Unplug left trigger cord. Using the right trigger cord, plug into a 120 Volt outlet to engage relay. Take a volt meter and test the 240 Volt power output and verify that you've got 240 Volt power to each outlet on right side. Unplug right trigger cord. If you've got 240 Volt power coming from all outlets, your Helios® 18 is functioning properly. If not, have the Electrician give our Technical Support line a call for assistance.
- Next, plug your 240 Volt ballasts (Maximum 12,000 Watts) into the outlets on the right and left side of the controller.
- Adjust your 120 Volt appliance timer to the current time of day. Then set your HID lighting schedule (i.e. 12 hours ON/12 hours OFF). Plug the relay trigger cord sets into the appliance wall timer. Your Helios® 18 will now operate your lights at the pre-set timing schedule.

CAUTION: Lamps are hot and should allow to cool completely before handling.

ONLY FOR USE WITH 240 VOLT BALLASTS

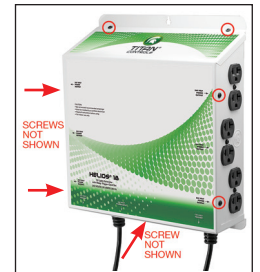


Figure A

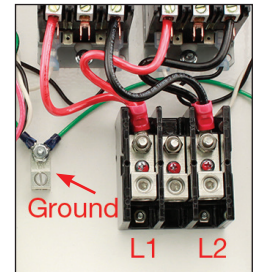


Figure B

Troubleshooting Tips

If the Helios® 18 is not performing as expected, try the following:

- Confirm that your power input is active from your breaker panel and providing 240 Volts / 80 Amps / 60 Hz to the controller.
- Check the voltage input of your incoming cord set using a voltage test meter to verify power is flowing to the controller.
- Make sure all of your connections are tight. Loose connections can cause “arcing”.
- Then plug in trigger cords and confirm that power is active and proper at your 240 Volt outlets.
- On a separate circuit, verify that your power cords and ballasts are functioning properly and that there are no shorts or arcing occurring.
- Should you find your circuit breaker keeps tripping, check your breakers to verify that they are the right amperage for your application.
- If you turn ‘OFF’ the power at the circuit breaker and your lights remain on, contact us immediately for resolution.
- Still having problems with your Helios® 18? Please contact our Technical Service Representative at 888-808-4826 to assist you further.

Controller Specifications:

- Size = 13”H x 11”W x 4”D
- Weight = 5 lbs.
- Voltage Input = 240 VAC
- Voltage Output = 240 VAC
- Relay Coil Voltage = 120 Volts
- Input Amps = 80 Amps
- Output Amps = 60 Amps
- Maximum Wattage = 12,000 Watts (1000 watts per outlet)
- Hertz = 60Hz
- Electrical Relay Operations = 100,000 Cycles
- RoHS compliant = Yes
- Storage Temperature = 32°F (0°C) to 135°F (57°C)
- Operating Temperature = 40°F (5°C) to 125°F (52°C)

Installation Example

