



**TITAN<sup>®</sup>**  
CONTROLS

# HELIOS 16<sup>®</sup>

16 Light - 240 Volt Controller  
Instruction Manual



**Sunlight Supply, Inc.**

National Garden Wholesale.

VANCOUVER, WASHINGTON U.S.A. 

[www.titancontrols.net](http://www.titancontrols.net)

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# Helios 16®

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## Warnings & Cautions

- The Helios 16® must be installed by a licensed/certified electrician or you will void your warranty!
- 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.
- Do not put paperclips, tools, etc. into unit. Possible electrocution may occur.
- Make sure to verify the voltage, amperage and hertz of the power source prior to wiring the controller into power source.
- Check that all ballasts that will be activated by this controller are 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!

## Helios 16® –240 Volt / 16 Light Controller Overview

The Helios 16® lighting controller is specifically designed for operation of high intensity discharge (HID) lighting systems. The controller will run your lights for any timing pattern over

### WARRANTY SERVICE: Please read warranty information first

If after reviewing the troubleshooting tips the unit will still not work, you should 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.

If there are no Dealers in your area, you may 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.

## 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.
- 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.
- 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.
- 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.

a 24 hour period by plugging the relay ‘trigger cord sets’ into external appliance timers. There is a 30 second delay between each bank of eight (8) 1000 watt lights. This allows each 8000 watt bank of lights to strike before igniting the next bank of lights. The Helios 16® is easily serviced by a certified electrical professional by simply removing the front panel to access parts. The system can handle up to a maximum of sixteen (16) 1000 watt HID metal halide or high pressure sodium grow lights. This lighting controller will provide up to a maximum of 80 amps of capacity on a standard single phase 240 volt circuit. The ETL listed Helios16® is built with only the highest quality components and will provide the user with years of trouble free service.

## Instructions for Operation

- The Helios 16® must be installed by a licensed electrician or you will void your warranty.
- DO NOT install this controller by yourself. **High voltage is dangerous!**
- Securely mount your Helios 16®.
- A UL listed minimum 100 Amp circuit breaker must be installed in this application.
- The 240 VAC “Disconnect Service” must be provided by the customer.
- Connect your incoming 240 Volt power to the terminal block located at the bottom center of the Helios 16®.
- Attach the ground wire to the “Grounding Lug” on the bottom right hand side of the Helios 16®.
- Verify that all your wiring connections are tight and that no loose wires are exposed.
- Plug your ballasts into the NEMA 6-15 outlets on the right and left side of the Helios 16® lighting controller.
- Securely attach the front panel of the Helios 16® to avoid potential shock or injury before initiating power to controller.
- Plug relay trigger cord sets into an external 24 hour appliance timer(s).
- Make sure that all wires and cables have been properly secured.
- Activate single phase 240 volt/60 Hz. power to the Helios 16® lighting controller.
- When the relays are activated via the external 24 hour timer, you will hear a “CLUNK” sound and your lights will come “ON”.
- Your Helios 16® will now control your lights at the desired settings until the power is defeated.

Caution: Lamps are hot and should be allowed to cool a minimum of 15 minutes before handling.

**ONLY FOR USE WITH 240 VOLT BALLASTS**

# Troubleshooting Tips

If the Helios 16® is not performing as expected, try the following:

- Contact a certified Electrician to service your Helios 16® lighting controller.
- Confirm that your power input is active from your power panel and providing 240 Volts/ 100 Amps/60 Hz. to the controller.
- Check the voltage input 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”.
- After activating relay, confirm that power is active and proper at your 240 volt outlets.
- Verify that your power cords and ballasts are functioning properly and that there are no shorts or arcing occurring.
- Check ballasts and lights in known 240 Volt power source to verify that they are working properly.
- Still having problems with your Helios 16®? Please contact our Technical Service Representative at 888-808-4826 to assist you further.

# Controller Specifications:

- Size = 19.5”H x 28”W x 5.5”D
- Weight = 30 lbs.
- Input Amperage = 100 Amps
- Output Amperage = 80 Amps
- Voltage Input = 240 VAC
- Voltage Output = 240 VAC
- Relay Coil Voltage = 120 VAC
- Timing Module Voltage = 120 VAC
- Maximum Wattage = 16,000 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

