# User's Guide

# SUNPRO 600W Digital Electronic Ballast

## adjustable on 250-400-600-660W:

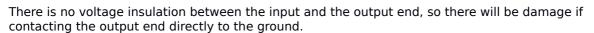
## **Warning**

Don't operate the ballast before you read and fully comprehend the instructions.

The start voltage of the ballast is a maximum of 4500 Volt; it might be dangerous for people nearby equipped. Please pay attention to the danger and don't touch any electric object when operating the ballast.

The ballast cannot ignite lamps when it is hot. When reigniting the lamp after shutting down, please wait 3 minutes to give time to the lap to cool down.

The ballast cannot be installed and operated under circumstances with explosive / volatile gas, it cannot be started near flammable gas or liquid.





The SunPro Digital Electronic Ballast is an efficient, energy-saving unit by combining high power factor, high luminious efficiency, and the versatility of supporting both high pressure sodium as well as metal halide systems. The ballast operates at a super high frequency, which not only ensures consistency in power output, but also prolongs bulb life and increase lighting efficiency. It also equipped with many types of protections, such as open / short circuit, ignition failure, overheating, and end-of-bulb-life protection technology for a save and flawless performance.

## **Disclaimer**

We advise our users to carefully read through all the details before initial usage. Failure to observe these safety warnings will result in a waiver of al liabilities and warrantees, ad may result in serious injury or death. Keep away from children!

### **Pre-ignition cautions:**

Please only use the appropriate wiring for the power cord, we recommend the one included with the ballast. Installation on location must be one by a qualified electrician;

Choose a highly ventilated area for mounting (external air cooling recommended);

DO NOT expose to sunlight;

DO NOT allow water contact:

DO NOT mount to reflector;

DO NOT operate in high humidity;

DO NOT blow exhaust air into the ballast;

DO NOT stack ballasts on top of each other; ballasts must be at least 150mm apart;

DO NOT mount in enclosed spaces;

DO NOT attempt to open the casing of the SunPro Digital Electronic Ballast, warrantee will no longer be applicable;

DO NOT modify or alter the SunPro Digital Electronic Ballast in any way. The amount of amperage combined with high frequency can be lethal;



DO NOT connect input and output together;

DO NUT run mismatches bulbs and ballasts; bulb wattage rating should always be the same as ballast wattage rating;

DO NOT dim metal halide lamps;

Ensure proper connection of al cables, cords and terminals before plugging into a power source;

If the bulb appears to be damages, DO NOT attempt to ignite it;

#### **Operation cautions**

Connect the power cord to the ballast, then to the wall. Surge protector, or a timer (optional) as a witch is recommended.

Avoid direct line of sight with the light bulb.

ALWAYS wear eye and skin protection within the light's primary operating proximity / environment.

DO NOT make contact with the bulb during its operation.

## **Shutting down**

Do not unplug the fixture cord from the ballast while the system in on. ALWAYS unplug from the wall socket, or disconnect with a switch.

DO NOT make contact with the bulb immediately. Please wait at least 15 minutes if you have thermal protection, or 30 minutes without.

The micro-processor within the ballast will automatically detect the bulb type (HPS / MH) and input voltage (120V / 240V). Please wait at least 5 minutes before turning the ballast on with a new setting.

## **Specifications**

CHARACTER OF PROTECTION / PHYSICAL SPECIFICATIONS:

Short cut protection: YES Wiring distance: max. 20 meters

Open: YES Working temperature range: -30 to + 50 Celsius

Strike failure protection:YES Maximum case temperature: 80 Celsius

Thermal protection: YES EOL End Of Lifetime bulb: YES

Dimmable: YES, only with HPS bulb!

Input:

170Vac-265Vac Rated Vin 230/240V Vac Imax 3.7

Protection of over current input: internal fuse PF > 0.98 THD: < 10%

Frequency in: 50Hz 60Hz

**Output:** 

Power out > 580W V lap 75 Vac - 160 Vac frequency out: > 60 Hz

Current crest factor CCF: < 1.7 Voltage open circuit > 200 V

Ignition voltage > 4000 V Efficiency > 94% (240Vac)

