



## Low Voltage Power Supply Installation Guide

**CPT600DCA**

**CPT1200DCA**

**CPT1200DCAI**

**Input Voltages: 100-277VAC , 50/60HZ**

<b>Power Supplies</b>	CPT600DCA	CPT1200DCA	CPT1200DCAI
<b>Output Voltage</b>	26VDC	26VDC	26VDC

### **!! ATTENTION !!**

Please read and understand thoroughly this installation guide to ensure safe and efficient operation of this Power Supply.

If transformer is mounted in a metal outdoor weatherproof enclosure, ensure you have venting to allow air flow required to cool the transformer during operation.

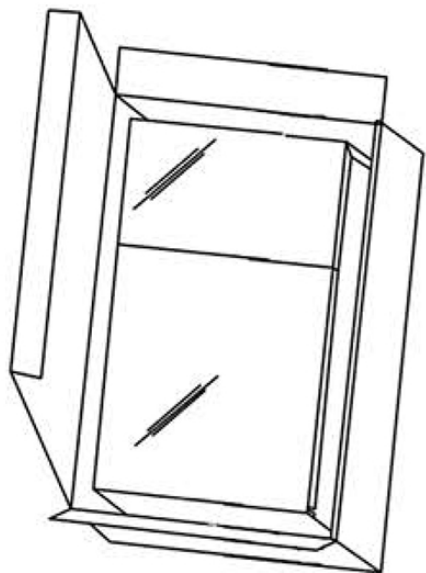
### **IMPORTANT SAFETY INSTRUCTIONS**

#### **SAVE THESE INSTRUCTIONS.**

- “Warning – Risk of electric shock. Install power unit 5 feet (1.5m) or more from a pool, spa, or fountain. Connect power unit to a receptacle protected by a GFCI.
- “Warning – Install power unit in or on non-combustible materials only.
- Plug the power supply to a GFCI protected hooded flush type cover plate receptacle.
- Do not use extension cord.
- Secondary wiring is intended for shallow burial – less than 6 inches (152mm)
- For additional length of the wire in the secondary, please contact manufacturer.
- Follow this instruction to determine the number of luminaires to be used with this power supply.

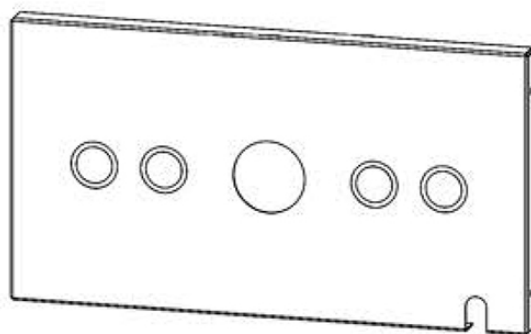
# INSTALLATION INSTRUCTION

1



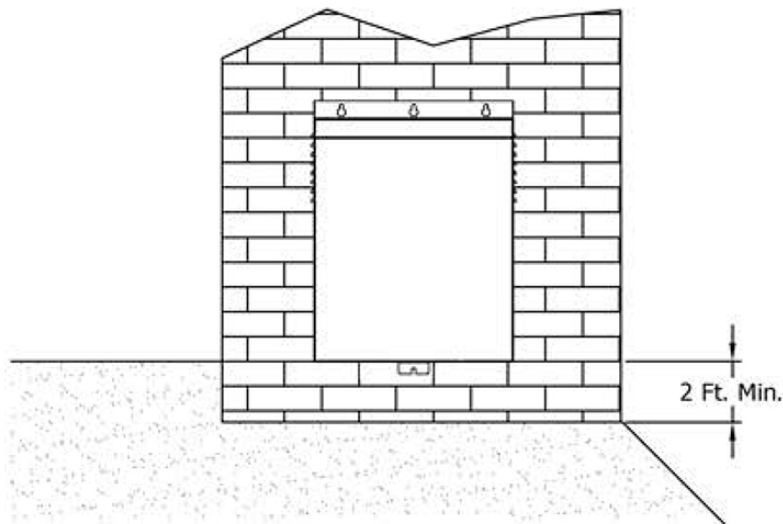
Carefully remove the power supply and inspect for any damage that may have been incurred during shipment.

Our Bottom Plate Features double knock-outs for adapting to standard conduit sizes, as well as a 1-5/8" diameter access hole to allow for a larger centrally located 1-1/2" conduit for a cleaner, more professionally looking installation.



Example:  
Bottom Plate

## 2 MOUNTING THE UNIT :



Mount the Power Supply to a solid surface using keyhole slots in the mounting bracket. (NOTE: The Power Supply must be mounted at least 2 feet above ground level, with the wire terminals facing down)

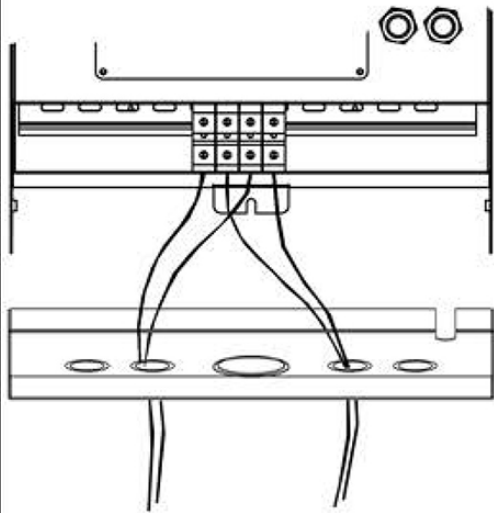
Secure the Power Supply using the appropriate wall anchors for the wall surface used.

## 3 DETERMINE THE LOAD :

Add up your fixture's wattage. Divide your load in to 600W max per wire run. **DO NOT EXCEED 600W PER RUN!!**

## 4 CONNECTING THE WIRES :

Loosen the two screws that hold the unit cover in place & remove cover.



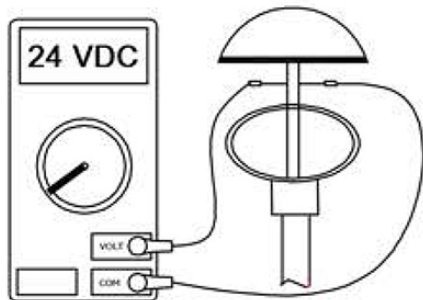
Run lighting wires through knockouts in Bottom Plate. Connect the low voltage wires to the (-24VDC) and (+24VDC) labeled on terminal blocks.

Make sure that all connecting screws are secure and tight.

**REMEMBER!! Maximum 600W per circuit !!**

Turn off the blue lit switches in the power supply on the front panel. Plug the line cord into a grounded outlet. Turn on one blue lit switch at a time to ensure that your low voltage wire runs are connected properly, and to ensure that there are not any short circuits.

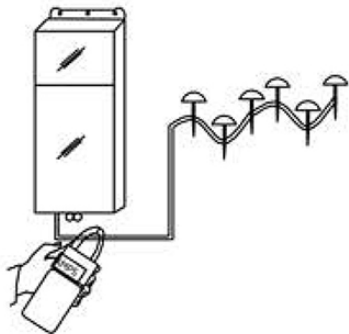
## 5 CHECKING LAMP VOLTAGES :



Check the voltage at each fixture using a True RMS voltmeter, and make sure you have the proper voltage to the lamp.

The correct voltage should be between 16VDC - 24VDC

## 6 CHECKING THE OUTPUT AMPS :



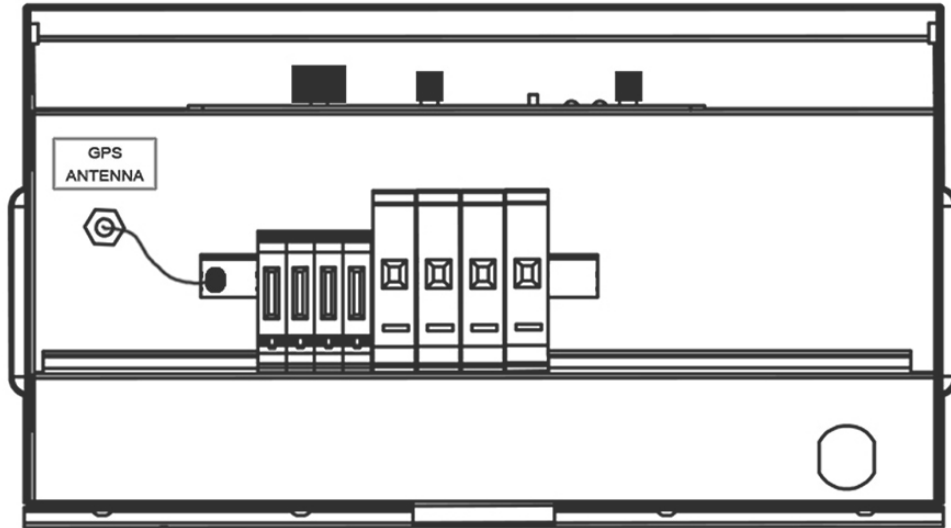
Once you have checked all the runs for correct voltages, use a clamp-on Amp Meter and Check the output current on the low-voltage cable at the transformer.

**REMEMBER!! Maximum 25 Amp per circuit!!**

**Recommended 21 Amp to 24 Amp DC**

7

## OPTIONAL EXTERNAL ANTENNA



CPT1200DCAI model is equipped with a PLC (Programmable Logic Controller) and an internal antenna to receive GPS signal for daily sunrise and sunset.

If power supply is installed in a DB box or Hoffman style weatherproof outdoor mount enclosure, you would require an external antenna to receive GPS signal.

Contact Cast Lighting for the external antenna.

External antenna model # CPTANTEN1