

## **INSTALLATION INSTRUCTIONS**

**VOLT® LOW VOLTAGE POWER SUPPLY**

**ITEM: VTR-50-PBK**

1-813-978-3700 • Mon-Fri 8am-8pm • Sat-Sun 10am - 6pm (EST)

**IMPORTANT: PLEASE READ BEFORE INSTALLATION**

Low voltage installation and maintenance is safe and presents no risk for electric shock injury. However, there are regulations that may apply and that should be followed by installers. The following safety points may or may not be included in these regulations - the installer is responsible for ensuring a compliant installation.

These instructions do not intend to cover all variations in installation, operation maintenance or mounting situations.

1. **WARNING- RISK OF SHOCK.** Install power unit at least 5 feet (1.5m) from pool or spa and at least 10 feet (3.05m) from a fountain.
2. **WARNING-** install power unit in or on non-combustible materials only.
3. Power supply must be connected (using supplied power cord) to GFCI protected receptacle with an In-use cover.
4. All power supplies are indoor and outdoor rated, but we recommend that the transformer be mounted outdoors. If mounting indoors, check for local electrical codes that may apply.
5. Power supply must be mounted in a vertical orientation with the bottom plate at least 1 foot above the ground.
6. In hot climates, avoid mounting in direct sunlight. Power unit will get hot regardless of climate. This is normal for operation.

**DETERMINE THE LOAD**

The general capacity should have been determined prior to purchasing the transformer. Circuit loads should not exceed 80% of capacity. As a general rule, total light fixture wattage should not exceed 80% of transformer capacity. To determine the total wattage, simply add up the wattage of all fixture lamps. This number should be 20% less than the transformer's wattage capacity. If you are over capacity, your installation may require a secondary or larger transformer.



## **IMPORTANT: PLEASE READ BEFORE INSTALLATION**

**WARNING: Risk of Electric Shock.** Install power unit 5 feet (1.5 m) or more from a pool, spa, or fountain. Where the power unit is installed (a) indoors within 10 feet (3.05 m) of a pool, spa, or fountain or (b) outdoors, connect power unit to a receptacle protected by a GFCI.

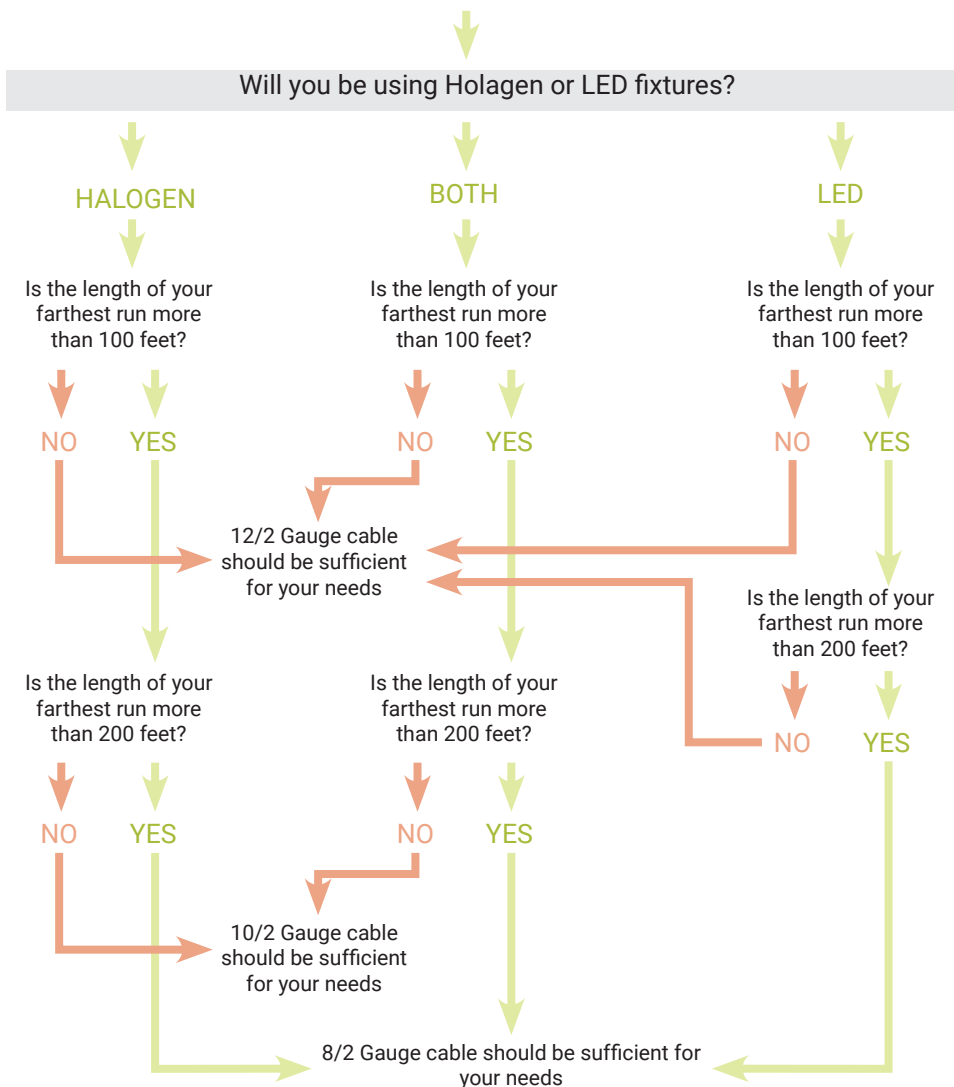
**WARNING: Risk of Electric Shock.** When used outdoors, install only to a covered Class A GFCI protected receptacle that is weatherproof with the power unit connected to the receptacle. If one is not provided, contact a qualified electrician for proper installation. Ensure that the power unit and cord do not interfere with completely closing the receptacle cover.

**RISK OF FIRE:** do not place insulation under terminal plate. Check connection after installation.

1. Specific instructions for mounting, proper wiring, grounding, and servicing. Type and minimum length of flexible cord or cable for connection to each secondary output circuit of the power supply. The supply circuit for the landscape lighting system shall be protected by a Class A type ground fault circuit interrupter, unless it is provided with the landscape lighting system. A cord-connect landscape lighting system shall not be used with an extension cord.
2. The main secondary wiring is intended for shallow burial – less than 6 inches (152 mm).
3. An outdoor power unit shall be connected to a GFCI protected hooded flush type cover plate receptacle marked “Wet Location” while in use.
4. FOR USE WITH LANDSCAPE LIGHTING SYSTEMS ONLY.
5. THIS DEVICE IS ACCEPTED AS A COMPONENT OF A LANDSCAPE LIGHTING SYSTEM WHERE THE SUITABILITY OF THE COMBINATION SHALL BE DETERMINED BY CSA OR LOCAL INSPECTION AUTHORITIES HAVING JURISDICTION.
6. DO NOT CONNECT TWO OR MORE POWER SUPPLIES IN PARALLEL.
7. CAUTION: FOR USE ONLY ON A BRANCH CIRCUIT PROTECTED BY A CLASS A TYPE GROUND FAULT CIRCUIT INTERRUPTER.
8. DO NOT MOUNT POWER SUPPLY OR LUMINAIRES WITHIN 3 METERS OF A SWIMMING POOL OR SPA.

## ! DETERMINE WIRE GAUGE

What gauge cable do I need in order to run my Landscape Lighting System?



**IMPORTANT!** Please note that we do not recommend any runs longer than 300 ft. for low voltage lighting.

## PACKAGE CONTENTS

A. (1) Power Supply

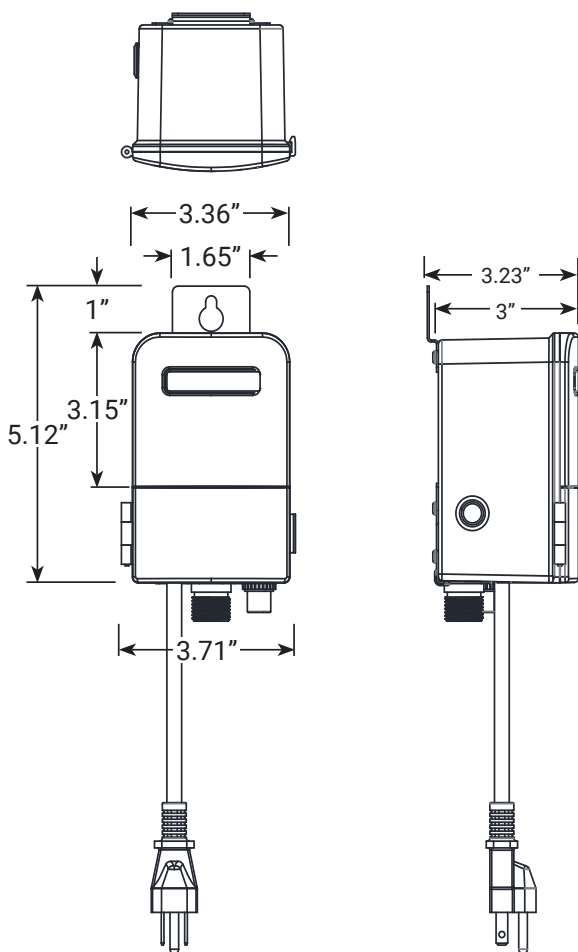
## PARTS REQUIRED (SOLD SEPARATELY)

A. (1) Wall Anchor

C. (1) Mounting Accessory

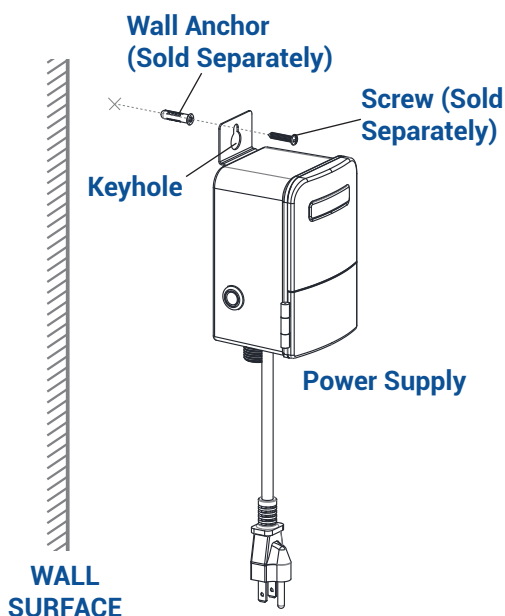
B. (1) Screw

## PRODUCT DIMENSIONS



This power supply can be mounted to a wall or a stake. Please refer to Option A for wall mounting and Option B for stake mounting.

## 1 INSTALL POWER SUPPLY TO WALL (OPTION A)

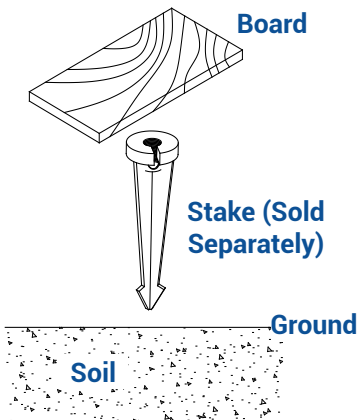


Determine the desired location for mounting the power supply. Drill a hole into the wall surface and insert the wall anchor (sold separately). Thread the screw (sold separately) into the wall anchor leaving enough exposed to hang the power supply on.

Place the keyhole of the power supply onto the screw head.

***Go to Step 3 to complete installation.***

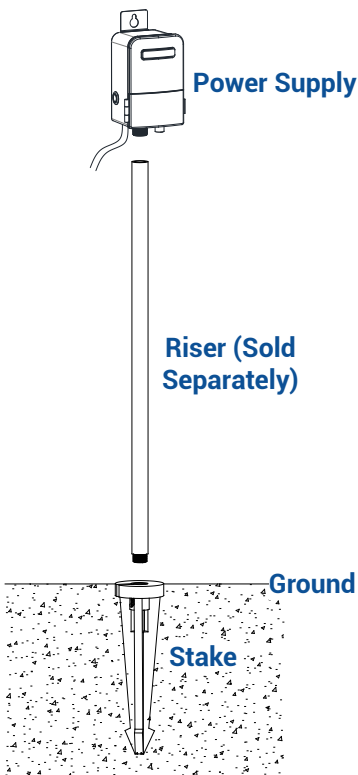
## 1 INSTALL STAKE (OPTION B)



Determine your desired location for mounting the power supply. Hammer the stake (sold separately) into the ground until flange of stake is flush to grade. To avoid damage to the stake, place a board on top of the stake while hammering.

Note: If the ground is hard and the stake is difficult to install, make a crosscut in the ground using a flat shovel.

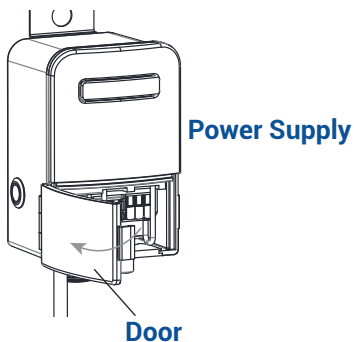
## 2 INSTALL POWER SUPPLY AND RISER ON STAKE (OPTION B)



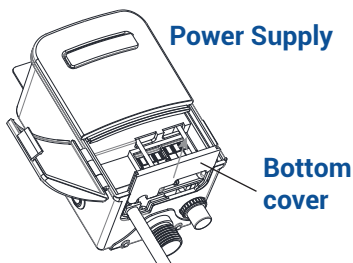
Thread the riser (sold separately) onto the stake.

Then, thread the power supply onto the top of the riser.

***Go to Step 3 to complete the rest of the installation.***

**3 OPEN DOOR**

Open the door of the power supply.

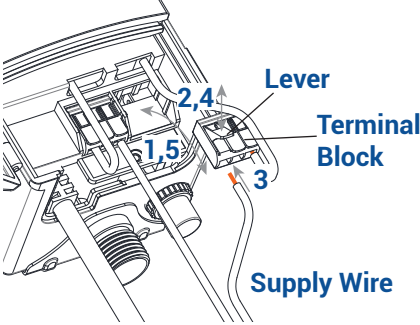
**4 REMOVE COVER**

Remove the bottom cover of the power supply.



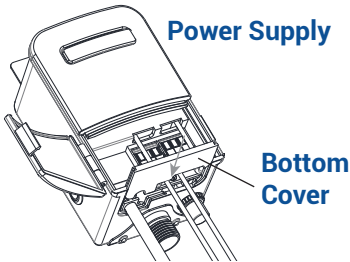
## 5 CONNECT WIRES

### Power Supply



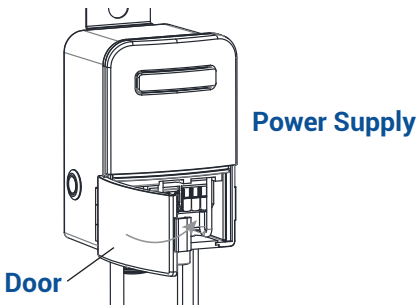
1. Take out terminal blocks from the power supply.
2. Open the levers on the terminal blocks.
3. Insert one side of the supply wire into the COM and the other into the 15V terminal block.
4. Push the levers down to secure the wires.
5. Insert terminal blocks back in place.

## 6 INSTALL COVER

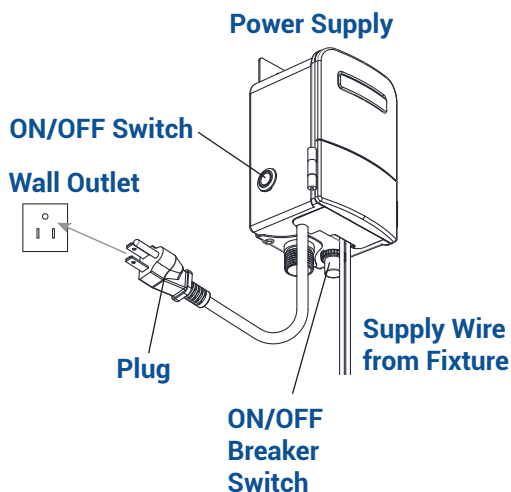


Install the bottom cover back onto the power supply.

## 7 CLOSE DOOR



Close the door of the power supply.

**8 CONNECT TO WALL OUTLET AND TEST POWER SUPPLY**

Insert the plug to the wall outlet. Push the ON/OFF switch on the side of the power supply to turn on the fixtures.

Note: The maximum output rate of the power supply is 50 watts. If the loading rates are over 50 watts, the circuit will be disconnected automatically after lighting on fixtures.

If the circuit is disconnected, removing the plug from wall outlet and reducing the

loading rates to less than 50 watts. And then press the ON/OFF breaker switch on the bottom to reset the power supply. Insert the plug back to the wall outlet again and now the power supply will be functional normally.





1-813-978-3700 • Mon-Fri 8am-8pm • Sat-Sun 10am - 6pm (EST)

Specifications and product details subject to change without notice.  
© Copyright 2024, VOLT® Lighting, Lutz FL USA 33549 • All rights reserved.  
[customersupport@voltlighting.com](mailto:customersupport@voltlighting.com) • [www.voltlighting.com](http://www.voltlighting.com)