Transformer Load

- When LED is ON it means the transformer is working.
- Icon on screen indicates the load status.

When one bar is shown, 20% of the transformer capacity is being used. So at full load, all bars will be lit. When the transformer is overloaded, the bar icon will blink, and when the load over 120% or short circuited, the output will shut off.





Checking your load and reduce the number of lights and check for a short then press any button to turn the transformer back on and reset to your working mode.

Troubleshooting

All of the lights fail to work:

- If the LOAD icon is flashing, make sure you have no more than 50 watts connected and there are no shorts.
- Check that the transformer power is on and the current mode is not set to «OFF».
- Check if there is a loose connection at the transformer screw terminal.

The Lights are "ON" during the day:

• The transformer is in a dark/shaded area if operated using photocell dependent mode.

The lights do not switch "ON" at dusk:

• The transformer is in an area where there is too much light at night if operated using photocell dependent mode.

United States of America

Code	State (Area)	Code	State (Area)	Code	State (Area)	Code	State (Area)
1	Alabama (North)	23	Illinois (South)	45	Missouri (South)	67	Pennsylvania (West)
2	Alabama (South)	24	Indiana (Eastern Time Zone)	46	Montana (East)	68	Rhode Island
3	Alaska	25	Indiana Southern (Central Time Zone)	47	Montana (West)	69	South Carolina
4	Arizona (no DST)	26	Iowa (East)	48	Nebraska (East)	70	South Dakota (East)
5	Arkansas (North)	27	Iowa (West)	49	Nebraska (West)	71	South Dakota (West)
6	Arkansas (South)	28	Kansas (East)	50	Nevada (North)	72	Tennessee (West)
7	California (Central)	29	Kansas (West)	51	Nevada (South)	73	Tennessee (East)
8	California (North)	30	Kentucky (East)	52	New Hampshire	74	Texas (East)
9	California (South)	31	Kentucky (West)	53	New Jersey	75	Texas (North)
10	Colorado (North)	32	Louisiana (North)	54	New Mexico (North)	76	Texas (South)
11	Colorado (South)	33	Louisiana (South)	55	New Mexico (South)	77	Texas (West)
12	Connecticut	34	Maine	56	New York (South)	78	Utah
13	Delaware	35	Maryland (East)	57	New York (Upstate)	79	Vermont
14	Florida (North)	36	Maryland (West)	58	North Carolina (East)	80	Virginia (East)
15	Florida (South)	37	Massachusetts	59	North Carolina (West)	81	Virginia (West)
16	Florida (West)	38	Michigan (North)	60	North Dakota (East)	82	Washington
17	Georgia (North)	39	Michigan (South)	61	North Dakota (West)	83	West Virginia
18	Georgia (South)	40	Minnesota (North)	62	Ohio	84	Wisconsin
19	Hawaii	41	Minnesota (South)	63	Oklahoma	85	Wyoming
20	Idaho (North)	42	Mississippi (North)	64	Oregon (East)		
21	Idaho (South)	43	Mississippi (South)	65	Oregon (West)		
22	Illinois (North)	44	Missouri (North)	66	Pennsylvania (East)		

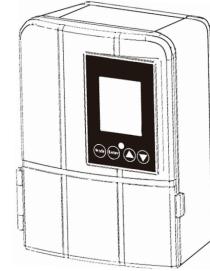
Canada

Code	Area/City	Code	Area/City	Code	Area/City	Code	Area/City
101	Whitehorse, Yukon	102	Montréal, Quebec	103	Quebec	104	Charlottetown, Prince Edward Island
105	Ottawa, Ontario	106	Toronto	107	Barrie, Ontario	108	Iqaluit, Nunavut
109	North Sydney, Nova Scotia	110	Halifax, Nova Scotia	111	Calgary	112 / 113	Vancouver
114	Surrey	115	Winnipeg	116	Brandon	117	Moncton
118	Saint John	119	St. John's	120	Yellowknife		

superbright leds.com

Low Voltage Transformer

LVT-50WA-12VAC



Read all instructions before assembly. Failure to do so may result in incorrect assembly or possible injury.

IMPORTANT SAFETY INFORMATION PERTAINING TO RISK OF FIRE OR INJURY TO PERSONS.

- Do not install within 10 ft (3 m) of a pool, spa, or fountain.
- For use with 12 volt low voltage outdoor landscape lighting system only.
- Not for use with submersible lights or pool/spa equipment.
- There are no serviceable parts inside the power supply unit.





4400 Earth City Expy, St. Louis, MO 63045 866-590-3533 superbrightleds.com

General Setup

- CLOCK TIME SETTING (Press "Mode + Enter" = Clock) Set your local time by press A and ▼ with (Enter) button
- ASTRO TIMER SETTING (▲+▼= Location) Press "▲+▼" button and the "Location" icon will flash, then press ▲ or ▼ button to choose your state/area/city code (refer to table) and press (Enter) for confirm the setting.
- Default working mode is that lights will be on at local sunset time, turn off at 11:00 PM, turn on again at 3:00 AM, and switch off at sunrise. To activate, press "Mode" button for 3 seconds. The "Location" icon will flash 3 times which means default mode is selected.

Operation buttons

- "Mode" chooses mode
- "Enter" confirms setting
- ▲ :up selection button (hold down for quick selecting)
- ▼ :down selection button (hold down for quick selecting)
- "Mode" + "Enter" = "Clock" local clock time set buttons
- ▲+▼ = "Location" City/area code set buttons (refer to code table)

DO NOT DISASSEMBLE

- Do not submerge transformer.
- Do not connect two or more transformers in parallel.
- · Do not use with a dimmer.
- Plug the power supply unit directly into a GFCI outlet that is marked "wet location".
- · Do not use an extension cord.
- The maximum output of this transformer is 50 watts. Do not overload the transformer. Be sure that the total cumulative wattage of all fixtures connected to the transformer is equal to or less than rated wattage.

PLEASE NOTE: This garden light system must be installed in accordance with all local codes and ordinances. If you are experiencing problems, contact a qualified electrician.

Mount the Transformer

Thanks to the built in Astronomic timer system, we strongly recommend you install this transformer indoor such as in basement, garage, tool house to prolong the life time of this transformer.









Only applies in AUTO mode. Do not install behind controls are visible shrubs. It will affect operate properly if photocell for auto dusk-to-dawn mode



Mount the Transformer

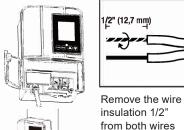
Option 1: Standard Wall Mounting

Insert the two (2) included support screws 3.5" (9 cm) apart in a wall near an electrical outlet and mount the transformer.

Option 2:Brick or Cement Wall Mounting

Drill two (2) holes of 5/16" (8 mm), 3.5" (9 cm) apart from each other, in a wall near an electrical outlet and install the two (2) included plastic anchors. Insert the two (2) support screws in the anchors until they have about 1/4" (6 mm) of space left to mount the transformer.

Connect Cable to Transformer





and twist ends.

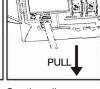
Open the front

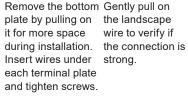
Landscape the right side

wire to the below the screen

panel by pulling







Verify that there are no loose cable strands. Replace the bottom plate and close the front panel.

LCD Astro Timer

Quick Setup Option

(Installing this transformer/timer indoor is highly advised)

- Check the clock time is set to your local time. If not, refer to CLOCK TIME SETTING.
- Press "▲ + ▼ = Location ", choose your city code (refer to the table)
- Press "Mode" button for 3 seconds. The "Location" icon will flash 3 times indicating default working mode set; Lights will be on at local sunset time, turn off at 11:00 PM, turn on again at 3:00 AM, and switch off at sunrise.



Mode Setting in Detail

- Press (Mode) button to select working mode. Press (Enter) for confirm the mode setting.
- ON: Always on mode OFF: Always off mode
- Auto: Photo sensor mode

A: Auto1: With "Auto 1/2" icon blinking, press (Enter) to confirm. The lights will turn off by sensor as default, so the END time can be set manually with Auto 1 mode. With Auto 1 and END icons blinking, use ▲ and ▼ to choose the clock setting and press (Enter). B: Auto2: Setting will go to Auto 2 automatically after Auto 1 time is entered. The lights

will turn on by sensor as default, so the START time can be set manually with Auto 2 mode. With Auto 2 and START icons blinking, use ▲ and ▼ to choose the clock setting and press (Enter).

Timer Mode (set ON and OFF at any time for testing or temporary use)

A: Timer1: Press "mode", then use ▲ and ▼ to choose Timer1 mode, then press (Enter), With the "Timer1" and "Start" icon blinking, set the ON time by using ▲ and ▼ then press (Enter) to confirm. Next, with the "End" icon blinking, set the OFF time using ▲ and ▼ then press (Enter) to confirm.

B: Timer2: After setting Timer1, the "Timer2" and "Start" icon will be blinking, meaning Timer2 is ready to set. Set the ON time by using ▲ and ▼ then press (Enter) to confirm. Next, with the "End" icon blinking, set the OFF time using ▲ and ▼ then press (Enter) to confirm.

Note: When Timer1 and Timer2 settings are set to the same time, Timer2 will be ignored.

Astro Mode (automatically sets the sunset/sunrise time by selecting your area/city code) A: Astro1: Press "Mode" then press ▲ or ▼ button to choose "Astro1/2". With the "Astro1" and "Start" icons blinking, press or vo choose ±10, ±20, ±30, ±40, or ±50 minutes before or after the local sunset time to turn ON the lights. Press "Enter" to confirm the setting. Next, set the "End" time using the same method.

B: Astro2: When "Astro2" and "Start" icons are blinking, you can choose the 2nd period ON time [AM00:00-AM05:59 (DST AM01:00-AM06:59)]. The settings are set the same way as Astro1 mode.

Note: In Astro1, when the "End" time is set at sunrise time. Asrto2 will show "OFF". because this can't be set in Astro2 mode with Astro1 set this way.

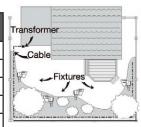
Note: When Astro2 can't be set, the "Astro2" icon will not show on the screen.

Run Landscape Wire (Not Included)

Mixtures.

- The landscape wire should run from the transformer to each light without being cut. Do not run the landscape wire within 10 ft (3 m) of a pool, spa, or fountain. If the landscape wire is too long, cut it with a cable cutter and terminate the end of the run.
- The landscape wire should be protected by routing it close to proximity of the light fixture or next to a building, deck or fence. Only use cable suitable for low voltage landscape lighting.
- See chart below for recommended cable gauges.

Combined Wattage of all light fixtures on line (Watts)	Wire Gauge (0–75')	Wire Gauge (75–150')	Wire Gauge (150–250')
0–60	16	16	14
60–120	16	14	12
120–180	14	12	12
180–240	12	12	Not recommended
240–300	12	Not recommended	Not recommended



Power the Transformer

- Plug the transformer directly into a GFCI electrical receptacle. Do not use an extension cord.
- To test the fixtures, change the mode to "ON".

Product info

- Durable fire resistant polycarbonate housing
- Built-in photocell (auto mode/dusk to down)
- Built-in timer (timer mode for any time setting)
- · Built-in astronomic timer ("astro" on and off

time for local sun set and rise accordingly)--For LCD timer only

- Built-in overload and short circuit cutoff protection: overloaded over 100% reduce load
- This transformer is built with automatic DST, no need to adjust for it.
- The Astronomic sunrise/set time of 85 areas in the US and 20 areas in Canada are programmed in to provide precision dusk to dawn working periods in your location.
- Thanks to the astro timer, this transformer can be installed indoor, prolonging the lifetime.
- Transformer is built with temporary ON/OFF/Photo sensor mode set, which helps checking function and troubleshooting.

