

TSDLCD24100 TRANSFORMER



ABBA

Class 2 LED Driver
Rainproof

MODEL: YL-D-24100C
ITEM : TSDLCD24100
INPUT : 120V AC
60Hz 1.6A
OUTPUT : 24V DC 100W



Intertek
4009733

CONFORMS TO CSA
STD.8750

CERTIFIED TO CSA
STD.C22.2NO.250.13

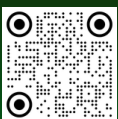
INSTALLATION GUIDE

ABBA LIGHTING USA

TSPD24100 TRANSFORMER



Thank you for choosing our high-quality product. To ensure the best possible experience, please take a moment to carefully read and follow all instructions before assembly, installation, and use. Doing so will not only guarantee proper function and safety but also help you maximize the full potential of this exceptional product. We truly appreciate your business and are honored to be your trusted provider of top-notch products!



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CATALOG



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WARNING

TO REDUCE THE RISK OF FIRE OR INJURY TO PERSONS:

- ✓ For safety reasons, we recommend that only a qualified professional install this electrical product.
- ✓ Before attempting to install this unit, ensure all power connections are off for your own safety.
- ✓ Fixture(s) must be installed in accordance with all local codes and ordinances.
- ✓ Do not instal within 10 feet of a pool, spa or fountain
- ✓ **DO NOT DISASSEMBLE**
- ✓ To ensure proper functionality and safety, it is important to refrain from connecting two or more transformers in parallel. It is advised to maintain individual electrical circuits for each transformer rather than attempting to combine their outputs. By adhering to this guideline, you can prevent potential complications and optimize the performance of each transformer.
- ✓ For optimal performance and safety, it is recommended not to utilize this device in conjunction with a dimmer switch. Avoid connecting the device to any dimming mechanism as it may lead to undesirable consequences or malfunctioning. It is advisable to operate the device without the use of a dimmer to ensure its intended functionality and prevent any potential risks.
- ✓ To ensure the highest level of safety, it is recommended to directly plug the transformer into a Ground Fault Circuit Interrupter (GFCI) outlet. By utilizing a GFCI outlet, you enhance protection against electrical shocks and minimize the risk of electrical hazards.
- ✓ To maintain optimal performance and safety, it is strongly advised against using an extension cord with this device. It is recommended to directly connect the device to a properly grounded power outlet. Using an extension cord may introduce electrical inefficiencies, increase the risk of overheating, or compromise the device's functionality. It is best to avoid extension cords and ensure a direct and secure power connection for the device.



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It is important to note that the maximum output capacity of this transformer is 100 Watts. To ensure safe and optimal operation, it is crucial to avoid exceeding this specified limit. Overloading the transformer by drawing power beyond its maximum capacity can lead to overheating, reduced efficiency, and potential damage to the device. It is highly advised to carefully monitor the power requirements of your equipment and ensure they fall within the specified limits of the transformer to maintain its performance and longevity.

WARRANTY

- We stand behind the quality of our product and offer a 3 Year warranty. Kindly ensure that you keep the proof of purchase as it will be required for any warranty claims.
- Warranty will be void if there is any damage due to improper usage or modification to the fixture.
- Failure to comply with the instruction in this manual may increase the risk of damage or injury and will void warranty.



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CAUTION:

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DO NOT INSTALL WITHIN 10 FEET OF A POOL, SPA OR FOUNTAIN

PRODUCT OVERVIEW

TSDLCD24100 –24V DC LED Driver / Power Supply

High-Efficiency • 100W Capacity • Stable Low-Voltage Output • Optimized for LED Applications

The TSDLCD24100 is a premium low-voltage 24V DC LED driver from Abba Lighting USA, designed to deliver consistent, safe, and efficient power to your LED lighting system. Whether you are powering strip lights, step lights, deck lights, or path lights, this driver ensures that your fixtures operate at peak performance with stable voltage output and extended service life. Built with reliability and safety at its core, the TSDLCD24100 is an essential component for both residential and commercial LED lighting projects.

STABLE 24V DC OUTPUT

Protects LED fixtures by delivering smooth, regulated power without flickering or surges.

DURABLE CONSTRUCTION

Built with high-quality materials to ensure long-lasting performance in demanding applications.

COMPACT DESIGN

Streamlined housing allows for easy integration in both concealed and open installations.

LED-OPTIMIZED

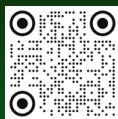
Specifically engineered to work with low-voltage LED lighting, ensuring maximum efficiency and extended lamp life.



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ENERGY EFFICIENT

Converts power with minimal energy loss, making it cost-effective and eco-friendly.

VERSATILE APPLICATION

Suitable for powering LED strip lights, deck lights, step lights, path lights, and accent fixtures across multiple settings.

|  Specification |  Details |
|---|---|
| Model | TSDLCD24100 |
| Input Voltage | 120V AC (standard household input) |
| Output Voltage | 24V DC |
| Maximum Load | 100W |
| Material / Housing | Commercial grade plastic |



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IDEAL APPLICATIONS

- Landscape Lighting Systems – Powers path lights, wall lights, and accent fixtures with reliable performance.
- Architectural Installations – Perfect for indoor/outdoor accents, under-cabinet lighting, and stair illumination.
- Step & Deck Lighting – Maintains safety and ambiance in outdoor living spaces with dependable 24V DC output.
- Commercial & Residential Projects – Equally suited for large-scale projects or small home installations requiring efficiency and reliability.



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1. Find a Location for the Transformer



1.1 Outdoor Use
The transformer is designed for outdoor use and features weather-resistant construction. Install the transformer in a location suitable for outdoor electrical equipment.



1.2 Mounting Height
Install the transformer approximately 12 in. to 48 in. / 30 cm to 121 cm above ground level. The display and controls should remain visible, accessible, and easy to operate.

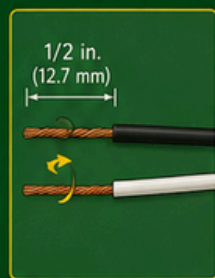
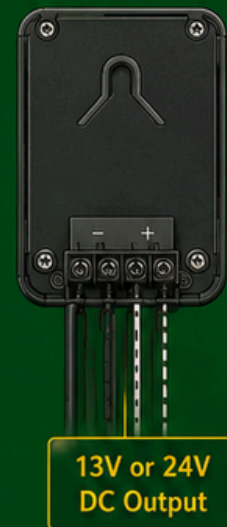


1.3 Avoid Obstructions in Auto Mode
When using Auto mode, do not install the transformer behind shrubs, plants, walls, or other obstructions. Blocked or shaded areas may interfere with the photocell and affect dusk-to-dawn operation.



1.4 Avoid Nighttime Light Sources
When using Auto mode, do not install the transformer too close to nighttime light sources such as porch lights, wall lights, security lights, streetlights, or landscape fixtures. Excessive ambient light may prevent the photocell from operating properly.

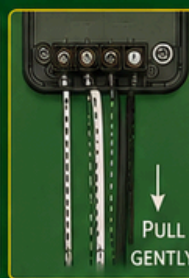
2. Connect Cable to the Transformer



2.1 Prepare the Landscape Wire
Strip approximately 1/2 in. / 12.7 mm of insulation from both landscape wire ends. Twist the exposed wire strands tightly to prevent loose strands.



2.2 Open the Bottom Plate
Insert one wire under each terminal plate and tighten the terminal screws securely.



2.3 Check the Connection
Gently pull each landscape wire to confirm that the connection is secure.



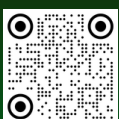
2.4 Inspect for Loose Strands
Verify that no loose copper strands are exposed outside the terminal area. Loose strands may cause short circuits or improper operation.



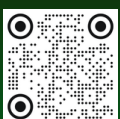
3. Mount the Transformer

Install a suitable screw in a wall near a GFCI-protected electrical outlet and hang the transformer securely.

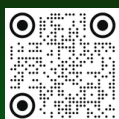
Use an outdoor-rated, weather-resistant screw suitable for the mounting surface.



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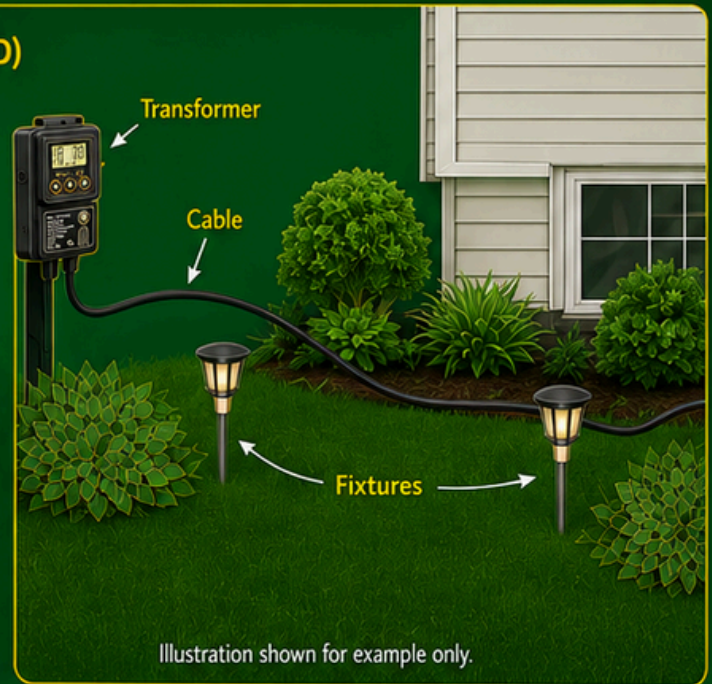
4. RUN THE LANDSCAPE WIRE (WIRE NOT INCLUDED)

Run low-voltage landscape wire from the transformer to each light fixture. Whenever possible, keep the wire continuous and avoid unnecessary cuts. Do not run landscape wire within 10 ft (3 m) of a pool, spa, or fountain. Trim excess wire with a suitable cable cutter.

Route the wire close to fixtures, buildings, decks, or fences to help protect it from damage. Use cable suitable for low-voltage landscape lighting.

Recommended cable type: SPT-2W or equivalent.

| Total Fixture Wattage on One Cable Run | Cable Run Length | | |
|--|------------------|-----------------|-----------------|
| | 0–75 ft. | 75–150 ft. | 150–250 ft. |
| 0–60W | 16 | 16 | 14 |
| 60–120W | 16 | 14 | 12 |
| 120–180W | 14 | 12 | 12 |
| 180–240W | 12 | 12 | Not Recommended |
| 240–300W | 12 | Not Recommended | Not Recommended |



5. POWER UP THE TRANSFORMER

- Plug the transformer into a GFCI-protected electrical receptacle.
- The default operating mode is ON. At this point, the connected fixtures should illuminate.



Landscape wire to the fixtures.

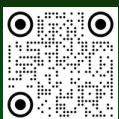
6. PRODUCT INFORMATION

- Durable fire-resistant polycarbonate body
- Built-in photocell (Auto mode / dusk-to-dawn)
- Built-in timer for custom time settings
- Built-in astronomical timer (sunrise/sunset-based operation)
- Overload warning icon on LCD display
- Built-in overload and short-circuit protection



- ON** Manual override status
- OFF** Photocell (dusk-to-dawn)
- Auto** Custom timer mode
- Timer** Timer mode
- Astro** Astronomical timer mode
- START** Lights turn ON
- END** Lights turn OFF
- Location** City code
- Sunset / Sunrise indicator
- Overload warning icon

| | | | | |
|---|---|---|--|---|
| <p>LOAD</p> <p>□□□□□</p> <p>0% Load – Normal</p> | <p>LOAD</p> <p>■□□□□</p> <p>Under 20% – Normal</p> | <p>LOAD</p> <p>■■■■□□</p> <p>Under 100% – Normal</p> | <p>LOAD</p> <p>⚡ □□□□ ⚡</p> <p>Blinking = Overloaded above 100%</p> | <p>LOAD</p> <p>■■■■■</p> <p>Over 120% – Output shuts down; reduce load</p> |
|---|---|---|--|---|



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7. General set up

7.1: CLOCK TIME SETTING

(Press “Mode + Enter” =Clock) :
Set your local time by press ▲ and ▼ with (Enter) button;

7.2: ASTRO TIMER SETTING

(▲ + ▼ =Location)

Press down ▲ + ▼ button, the “Location” icon flash, press ▲ or ▼ button to choose your city code (refer to attached city code sheet) and press (Enter) for confirm the set. e.g. you are in New York South, so choose location code 56.

7.3: Default working mode is Lights will be on at your local sunset time, and turn off at 11:00pm; Turn on at 3:00am again, switch off when sunrise. Press “Mode” button for 3 sec, the “Location” icon will flash 3 times which means default mode set

8: Operation buttons introduction od;

Mode: Modes choose button
Enter: setting confirm button
▲: up selecting button (hold down for quick selecting)
▼: down selecting button (hold down for quick selecting)
“Mode + Enter=Clock”: local clock time set buttons;
“▲ + ▼=Location”: City code set buttons(Refer to the cities code sheet)

9: MODES SETTING in detail;

Press (Mode) button to select working mode, Always press (Enter) for confirm the mode set.

9.1: ON: Always working mode

9.2: OFF: Always closing mode

9.3: Auto: Photo sensor mode (two periods working time options /Energy saving)

A): Mode Auto1; “Auto 1” icon blinking, press enter to confirm the ON by sensor automatic. (START) The lights ON by sensor as default ON way, so only need to set the END time; (END) The END icon blinking, press ▲ or ▼ to choose the clock “(--:--)” and sunwise icons blinking, press the (Enter) for choosing the end time at Dawn with sensor. (END) Options end times, When END icon blinking, you may press ▲ or ▼ button to set the OFF time earlier than dawn time, optional close times are PM8:00-AM00:59 (DST are PM9:00-AM01:59



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B): Mode Auto2: After “Auto1” set, it will turn to “Auto2” icon blinking after Auto1 first period working time set, there is a 2nd ON time option; The “Auto2 and “START” icon blinking, you can choose AM00:00-AM05:59 (DST are AM01:00-AM06:59) to open the lights again. The END time for 2nd period/Auto2 is by sensor at Dawn.

Remark: When Auto1 end time is set at Dawn by sensor, the Auto2 will only show “OFF”, means NO 2nd working period can be set.

(press “Enter” to confirm the setting) And the “Auto2” icon will not show on the LCD.

9.4: Timer mode; (set ON and OFF at any time for testing and temporary using)

A):Timer1: press “mode”, then press ▲ or ▼ button to choose Timer1, The “Time1 “ and “Start” icon blinking, ready to set the ON time by press ▲ or ▼ and Enter button to confirm. “End” icon blinking, ready to set the OFF time by press ▲ or ▼ and Enter button to confirm. You can set any time for working and OFF between 00:00-23.59; After Timer1 set, it will turn to Timer2 period working time set.

B):Timer2, The “Timer 2” and “Start” icon blinking, ready to set the ON time by press ▲ or ▼ and Enter button to confirm. “End” icon blinking, ready to set the OFF time by press ▲ or ▼ and Enter button to confirm. You can set any time for working and OFF between 00:00-23.59

Remark: When there is same working time period in Timer 1 and Timer2 setting, it will be ignored by the system.

9.5: Astro1 /2 (Astronomic timer two working periods, good to use when installed indoor and no light environment)

A) Astro1, press “mode”, then press ▲ or ▼ button to choose “Astro1”, the “Astro1 “/“Start” and “+00 “ icons blinking, press ▲ or ▼ to choose ±10,±20,±30,±40,±50 minutes before or later than the local sunset time to TURN ON the lights, Press “Enter” button to confirm the set. “End” and “+00 “ icons blinking, Turn OFF at your local sunrise time, press “Enter” to confirm the set. Options for “End” time: when “End” icon blinking, you can choose PM8:00-AM00:59 (DST PM9:00-AM1:59) to OFF.

B) Astro2, when “Astro2 and “Start” icons blinking, you can choose the 2nd period ON time AM00:00-AM05:59 (DST AM01:00-AM06:59)

Remark: when in Astro1 time period, the “End” time is set at sunrise time, the Asrto2 will show “ OFF” means can not set in Astro2 mode, (press “Enter” to confirm the setting) ,When “End” and “+00 “ icons blinking, press ▲ or ▼ to choose ±10,±20, ±30,±40,±50 minutes before or later than the local sunrise time to TURN OFF the lights, Press” Enter” button to confirm the set.

Remark: When the Astro2 can not be set, the “Astro2” icon not shows on the LCD.



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10 TRANSFORMER LOADING CONSUMPTION INDICATION

This transformer includes a load-status indicator.



20%



100%



OVERLOAD

- When the LED indicator is ON, the transformer is operating.
- Each bar represents approximately 20% of the transformer's rated wattage.
- Five bars indicate 100% (full load).
- If the transformer is overloaded, the load icon will blink.
- If the load exceeds 120% of rated capacity, or if a short circuit is detected, the output will shut off and the load icons will continue blinking.
- Reduce the load or correct the short circuit, then press any button to restart the transformer and return to normal operation.

TROUBLESHOOTING GUIDE



*ALL OF THE LIGHTS FAIL TO WORK

- If the LOAD icon on the LCD is flashing or the display is off, ensure you are using a fixture with a total wattage less than the transformer's rated capacity to avoid overloading.
- If necessary, remove some fixtures and then press any button to turn on the display. The transformer has built-in memory and will restart in the last operating mode.
- Check that all connections are secure at the transformer screw terminal.
- Verify that the end of the main wire is not at a short circuit.
- Check that the current mode is not set to "OFF."



THE LCD SCREEN HAS CONDENSATION

- This can occur if the transformer is installed in an area with excessive moisture.
- After heavy rain, allow several days for the unit to dry out in sunny weather.



THE LIGHTS STAY ON DURING THE DAY (AUTO MODE)

- The transformer may be installed in a dark area that causes the photocell to remain ON.



THE LIGHTS DO NOT TURN ON AT DUSK (AUTO MODE)

- The transformer may be installed in an area with too much ambient light at night.



THERE IS A SIGNIFICANT DELAY IN SUNRISE/SUNSET OPERATION

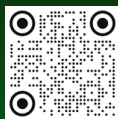
- Ensure the correct time zone is selected. If you are far from the nearest city or far north/south, sunrise and sunset times may differ significantly from the optimal mode.



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City Code Sheet for USA and Canada

| USA | | | | | | | |
|------|--------------------|------|--------------------------------------|------|---------------------|------|-------------------|
| Code | Area/City | Code | Area/City | Code | Area/City | Code | Area/City |
| 01 | Alabama North | 23 | Illinois South | 45 | Missouri South | 67 | Pennsylvania West |
| 02 | Alabama South | 24 | Indiana Eastern Time Zone | 46 | Montana East | 68 | Rhode Island |
| 03 | Alaska | 25 | Indiana Southern (Central Time Zone) | 47 | Montana West | 69 | South Carolina |
| 04 | Arizona (no DST) | 26 | Iowa East | 48 | Nebraska East | 70 | South Dakota East |
| 05 | Arkansas North | 27 | Iowa West | 49 | Nebraska West | 71 | South Dakota West |
| 06 | Arkansas South | 28 | Kansas East | 50 | Nevada North | 72 | Tennessee West |
| 07 | California Central | 29 | Kansas West | 51 | Nevada South | 73 | Tennessee East |
| 08 | California North | 30 | Kentucky East | 52 | New Hampshire | 74 | Texas East |
| 09 | 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, Québec | 103 | Québec | 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 | Vancouver |
| 113 | Vancouver | 114 | Surrey | 115 | Winnipeg | 116 | Brandon |
| 117 | Moncton | 118 | Saint John | 119 | St. John's | 120 | Yellowknife |



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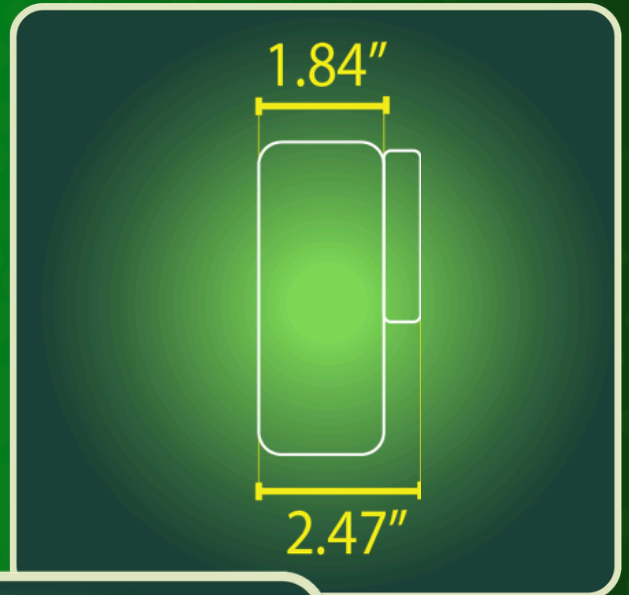
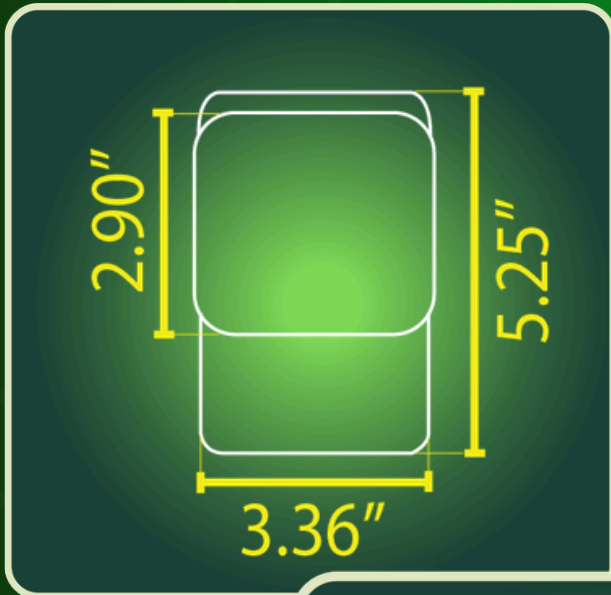


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When selecting the cable gauge, consider the distance between the transformer and the lighting fixtures. It is crucial to choose an appropriate gauge to ensure efficient power transmission and minimize voltage drop.

Please note that this chart provides general recommendations, and it is essential to consider specific factors such as the power requirements of your lighting system and any local electrical codes or regulations that may apply. Consulting with a qualified electrician can provide further guidance and ensure the proper selection of cable gauges for your specific installation.

HOW TO CHOOSE THE RIGHT LOW VOLTAGE WIRE:

| Feet | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 | 190 | 200 |
|------|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 40 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 14 | 14 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 10 | 10 |
| 60 | 16 | 16 | 16 | 16 | 16 | 16 | 14 | 14 | 14 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 10 | 10 | 8 |
| 80 | 16 | 16 | 16 | 16 | 14 | 14 | 14 | 14 | 14 | 12 | 12 | 12 | 12 | 10 | 10 | 10 | 10 | 10 | 10 | 8 |
| 100 | 16 | 16 | 14 | 14 | 14 | 14 | 14 | 12 | 12 | 12 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 8 | 8 | 8 |
| 120 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 10 | 10 | 10 | 10 | 10 | 10 | 8 | 8 | 8 | 8 | 8 |
| 140 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 10 | 10 | 10 | 10 | 10 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 160 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 10 | 10 | 10 | 10 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 180 | 12 | 12 | 12 | 12 | 12 | 12 | 10 | 10 | 10 | 10 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 200 | 12 | 12 | 12 | 12 | 12 | 12 | 10 | 10 | 10 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 220 | 12 | 12 | 12 | 12 | 12 | 10 | 10 | 10 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 240 | 12 | 12 | 12 | 12 | 10 | 10 | 10 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 260 | 12 | 12 | 12 | 12 | 10 | 10 | 10 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 280 | 12 | 12 | 12 | 10 | 10 | 10 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 300 | 12 | 12 | 12 | 10 | 10 | 10 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 320 | 12 | 12 | 10 | 10 | 10 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 340 | 12 | 12 | 10 | 10 | 10 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 360 | 12 | 10 | 10 | 10 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |

1. LOWER GAUGE WIRES ARE THICKER AND CONTAIN MORE COPPER. THEY HAVE A GREATER CURRENT CARRYING CAPACITY FOR LONG RUNS
 2. ITS BEST TO NOT EXCEED MORE THAN 80% OF YOUR LANDSCAPE WIRE CURRENT CAPACITY TO ENSURE THERE IS NO VOLTAGE DROP
- EXAMPLE: IF YOUR TOTAL WATTAGE OF YOUR LANDSCAPE LIGHTS IS 40 WATTS, THEN YOU CAN RUN 200 FEET OF 12 GAUGE WIRE WITHOUT VOLTAGE DROP.



YOUTUBE VIDEO
INSTALLATION GUIDE



WEBSITE



CATALOG



(800) 360-2960



ABBALightingUSA@gmail.com



7701 Alabama Ave, Canoga Park, CA 91304

TSDLCD24100

TRANSFORMER



ABBA

Class 2 LED Driver
Rainproof

MODEL: YL-D-24100C

ITEM : TSDLCD24100

INPUT : 120V AC

60Hz 1.6A

OUTPUT : 24V DC 100W



Intertek
4009733

CONFORMS TO CSA
STD.8750

CERTIFIED TO CSA
STD.C22.2NO.250.13