

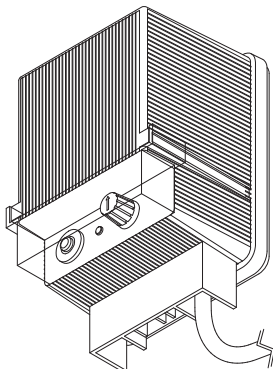


Innovation & Quality

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LOW VOLTAGE TRANSFORMER · 88 WATT

Model No. DA-88-12WA-1



Important Safety Information

Please read and understand all instructions before attempting to assemble, operate, or install this product. Failure to do so may result in incorrect assembly or possible injury. Keep this manual for future reference.

WARNING:

- Risk of fire or electrical shock. Turn off power before assembly.
- Do not install or connect wires with wet hands.
- Do not install this product within 10 feet (3.05 meters) of a pool, spa, fountain, or other water source.
- Do not to exceed the total rated watts of the transformer.
- Do not step on, or drive over the main cable.
- Do not repair or tamper with cord or plug.
- Do not use extension cords.
- Do not repair or modify this product in any way.
- Do not submerge in water.

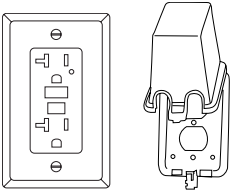
CAUTION:

- This lighting fixture is only suitable for 12V power supply.
- For low voltage landscape lighting systems only. Not suitable for use with submersible lights or pumps, or pool/spa equipment.
- Do not connect two or more transformers in parallel.
- Do not mount the transformer onto combustible material.
- In hot climates, avoid mounting in direct sunlight. Power unit will get hot regardless of climate. This is normal for operation.
- Not for use with dimmers.

Transformer

DETERMINE LOCATION FOR THE TRANSFORMER

- Prior to installing and powering the transformer, an approved GFCI receptacle with watertight protective cover (not included) must be installed by a qualified electrician.
- The GFCI receptacle and cover must be mounted a minimum of 12 inches (30.48 cm) above ground level. The transformer must be mounted at least 12 inches (30.48 cm) above the ground level.



Running the Landscape Wire

RUNNING THE LANDSCAPE WIRE:

- Do not use landscape cable smaller than listed in the chart below.
- The landscape wire should run from the power pack to each light fixture without being cut.
- Do not run the wire within 10 feet (3.05 meters) of a pool, spa, fountain, or other water source.
- The landscape wire should be protected by routing it close to the light fixture; near a building, deck, fence, or other outdoor structure.

ADJUSTING THE LIGHT FIXTURE:

- Before you bury the landscape cable underground, it is recommended you adjust your light fixtures at night to ensure you are happy with the position and lighting effect.

BURY THE LANDSCAPE WIRE:

- The landscape wire can be buried under soil, grass, or stone at a maximum depth of 6 inches (15.24 cm). Do not bury the connectors or cables in combustible materials such as wood chips, bark, mulch, or dried leaves; or at a depth greater than 6 inches (15.24 cm).

DETERMINING LIGHT FIXTURE LOCATION:

- To achieve consistent brightness and longer light fixture life, install the first light fixture at least 10 feet (3.05 meters) from the power pack.

CABLE SELECTION:

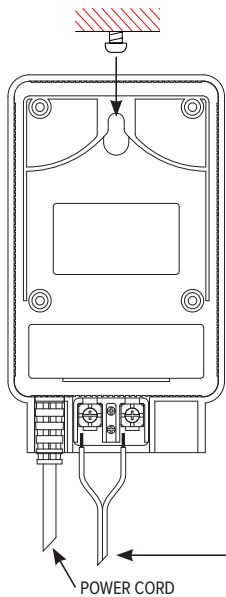
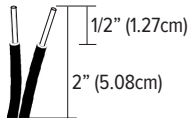
- Use the chart to determine the MINIMUM gauge cable to be used. Using larger cable will ensure maximum light output.

12 Volt Tap	Cable Length		
	0-50 Feet	51-100 Feet	101-150 Feet
Total Fixture Wattage			
0-60 Watts	16 AWG	16 AWG	14 AWG
61-120 Watts	16 AWG	14 AWG	12 AWG
121-180 Watts	14 AWG	12 AWG	Not Recommended
181-240 Watts	14 AWG	12 AWG	Not Recommended
241-300 Watts	12 AWG	Not Recommended	Not Recommended

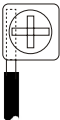
Installation Instructions

INSTALLATION:

- 1. Install 1 screw (included) into the wall. Pre-drill if necessary for the screw or plastic anchor (included) if necessary.
- 2. Hang the transformer on the screw head (make sure it is secure).
- 3. Determine low voltage landscape wire gauge required for installation. Carefully remove 1/2" (1.27 cm) of the insulation from the wire ends.



- 4. Insert stripped ends of the landscape wire under the pressure plates. Tighten the screws securely so the pressure plates are secure against the bare wire. Ensure wire insulation clears pressure plates.



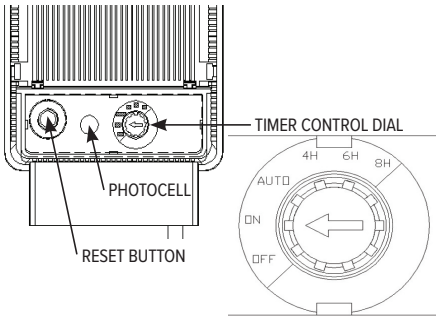
OPERATING INSTRUCTIONS:

- Once installed correctly, plug into an approved 120V GFCI receptacle. Bulbs and light fixtures must be 12V.

Light Operation

OPERATION:

- 1. (AUTO MODE): Light fixtures will automatically come ON at dusk and OFF at dawn or when the unit senses the absence of light for more than 30 seconds.
- 2. Timer can be set for either 4, 6 or 8 hours of operation. Settings will repeat every 24 hours.
- 3. Turn fixtures ON manually.
- 4. Turn fixtures OFF manually.



RESET BUTTON: A short circuit or overload will cause the breaker to trip and shut off power to the system. Remove the cause of the problem, wait 4 minutes, and press the reset button.

OFF	Power off. OFF overrides the photocell turning the system off manually.
ON	Power on. Light fixtures stay on. ON overrides the photocell turning the system on manually. This may be required during installation or daytime testing.
AUTO	Light fixtures will automatically come ON at dusk and OFF at dawn or when the unit senses the absence of light for more than 30 seconds.
4H	4 Hours of operation. Lights will automatically come ON at dusk and remain ON for the number of hours selected.
6H	6 Hours of operation. Lights will automatically come ON at dusk and remain ON for the number of hours selected.
8H	8 Hours of operation. Lights will automatically come ON at dusk and remain ON for the number of hours selected.

Troubleshooting (Initial Setup)

- Place the transformer in a location free of obstructions such as shrubs, etc. Do not mount in a dark or obscured location, as the photocell may turn the system on prematurely.
- The photocell will not activate if another light source is shining on the transformer. Please remove the extra light source (which could also cause the system to cycle off an on).
- Circuit breaker protection - in case of power overload, the lights will automatically shut off. Press the reset button to reset circuit breaker if necessary.
- If there is no power to the unit, try the following:
 - Ensure the plug is securely plugged into a GFCI protected receptacle.
 - Check the connection between the low voltage landscape cable and transformer to make sure it is secure. If a loose connection is found, reconnect and tighten screws securely.

General Troubleshooting

If only some of the lights work:

1. Check the contact pins of the connector on the light fixture to make sure they have pierced the landscape wire correctly.
2. The problem could be with the connector, or LED of the light fixture.
3. The bulb of the light fixture (if applicable) could be burned out. Use caution as the bulb could be hot.

If none of the lights work:

1. Make sure the switch and circuit breaker are on.
2. Make sure the transformer power is on.
3. Check if there is a loose connection at the transformer screw terminal with the cable.
4. Check the power switch is not in the OFF setting.
5. Check the contact pins of the connector on the light fixture to make sure they have pierced the landscape wire correctly.

The lights are on during the day:

1. The photocell is mounted in a dark area which causes the lights to turn on.

The lights do not come on at dusk:

1. The photocell is mounted in an area that has too much constant light at night, preventing the system from turning on.

Care and Maintenance

- Regularly clean the lens and coated metal surfaces with a non-abrasive cleaner.
- Do not use cleaners containing harsh chemicals, solvents or abrasives.