

Hinkley 200W Smart Landscape Transformer Installation Guide

Item No: 0200GY

ENGLISH Instructions

Attention: Read the following instructions before installation.

Please use contact info at bottom of page to contact Hinkley support.

CAUTION: WIRING MUST COMPLY WITH THE NATIONAL ELECTRICAL AND LOCAL CODES

Installation Location:

1. The smart transformer is meant for use with landscape lighting systems only.
2. Do not connect two or more transformers in parallel.
3. The smart transformer should be mounted close to the power source. Extension cords should not be used with this product. (**Note:** Plug is 36 inches in length.)
4. For indoor/outdoor use. Suitable for wet location according to national electric code. Do not install in areas subject to flooding or submersion.

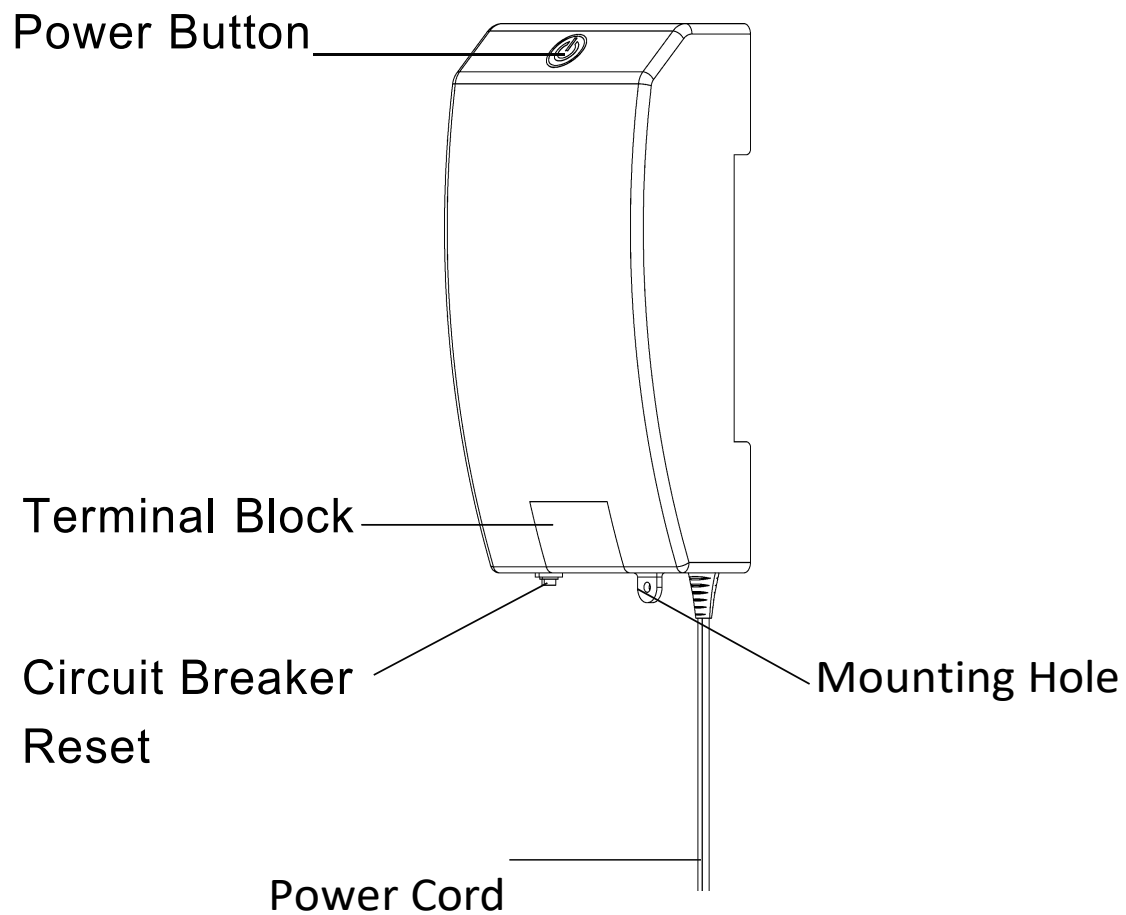
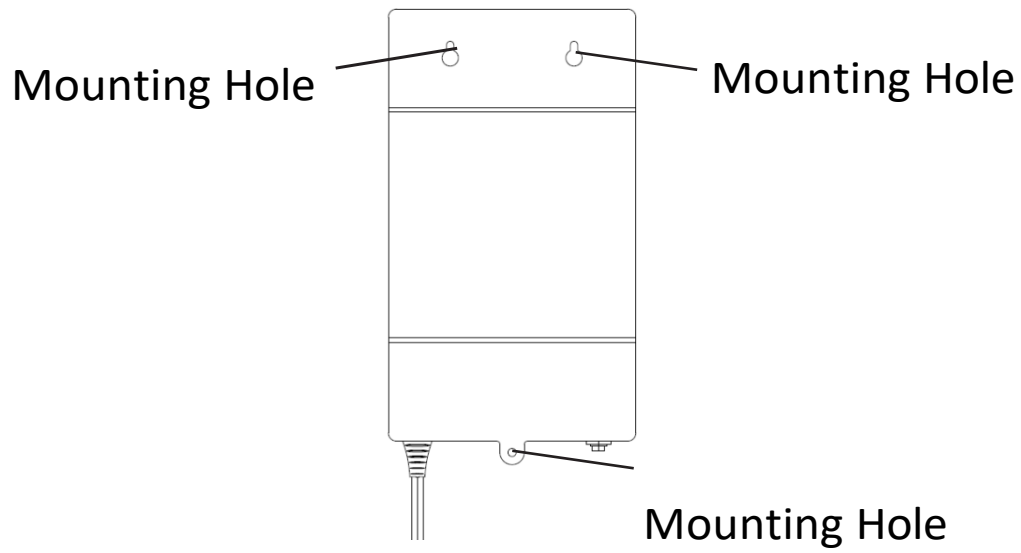
WARNING: Cord-Connected Power Unit

RISK OF ELECTRIC SHOCK. Install transformer 5 feet (1.5m) or more from the pool, spa, or fountain. Connect power unit to a receptacle protected by a GFCI, as required by NEC 680.

Mounting Guide:

1. The backside of the transformer features two keyhole mounts and one mounting hole at the bottom. (**Attention:** If preferred, use mounting key in box or at back of instruction sheet.)
2. Using the keyhole slots first, mount the smart transformer to an appropriate solid surface using the appropriate anchors and screws to fit the slots and application. (**Note:** the transformer must be mounted at least 1 foot above ground level, with the wire terminals facing down.)
3. Finally, secure the smart transformer using the single mounting hole at the bottom of the transformer. (**Note:** Provided mounting screws and anchors may not apply to all applications.)
4. Screws should be secure but not overtightened, otherwise mounting bracket may break.

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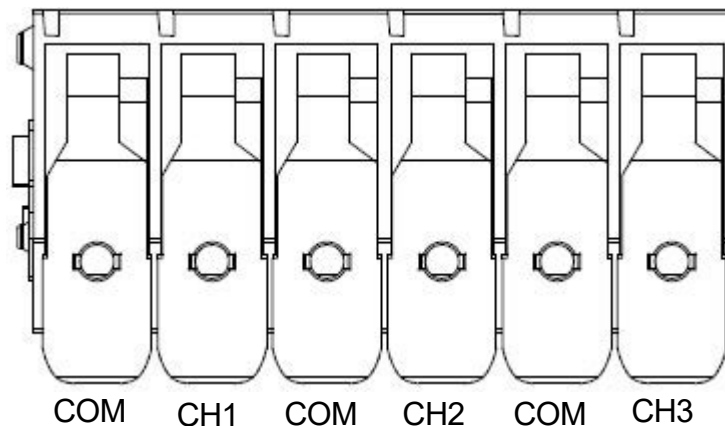


Wiring Guide:

WARNING: Make sure the transformer is not energized while making wiring connections.

Note: The transformer is DOE Efficiency Level VI. The terminals support up to 3 pairs of 10AWG hookup wire.

1. Locate and open the cover on the face of the transformer to reveal the terminal block.
2. The smart transformer is equipped with three channels; each channel (or zone) has a common terminal (COM) and a positive terminal (CH#).
3. Open the corresponding desired terminals by lifting the orange lever. Insert wires into the terminal and close the lever. (**Note:** Wires should be stripped about ½ inch.)
4. **Important:** The smart transformer is rated for a maximum of 200W total and has a minimum operating wattage of 5W. If the total load is less than 5W, the smart transformer will automatically shut off to comply with DOE Energy Efficiency Requirements.
5. Voltage should be verified at each fixture. Voltage should be within the range specified by the fixture or bulb manufacturer.
6. Finally, connect your power station to a 120V 60 Hz electrical outlet with ground connection in accordance with your local electrical code.



Determining the Load:

1. To determine the transformer size, add up the lamp wattages also consider the power loss in the output wire too.
2. For example, if you have 10 fixtures all rated at 25 watts, you will need a 300 watt (VA) transformer ($10 \times 25 = 250$ watts).
3. Do not exceed maximum wattage capacity. If your total wattage is too high, either divide the load between two transformers, or use a higher power rated transformer.
4. The transformer has a resettable button-type circuit breaker reset. The circuit breakers will trip if there is a short circuit, or if the total lamp wattage exceeds the maximum wattage.
5. To reset breaker, push the reset button in. If breaker trips again, check for an overload or short circuit.
6. Measure the approx. distance from the transformer to the first fixture on each circuit. Refer to chart to select the correct output for each circuit. You may use either a single tap or all taps.

POWER UNIT VOLTAGE DROP WIRING CHART

	Tap 1 12v		Tap 2 13v		Tap 3 14v		Tap 4 15v	
wattage	AWG 12	AWG 10	AWG 12	AWG 10	AWG 12	AWG 10	AWG 12	AWG 10
100-149	38	60	76	120	113	180	151	240
150-199	25	40	50	80	76	120	101	160
200-249	19	30	38	60	57	90	76	120

WATTAGE LOSSES PER FOOT

AWG	100w	150w	200w
12	0.21	0.461	0.855
10	0.131	0.23	0.537

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Pairing to Wi-Fi:

1. After mounting and wiring is complete, the transformer can be paired to your Hinkley app via a Wi-Fi network. (**Note:** the power station must be connected to a 2.4 GHz Wi-Fi network, not a 5G network.)
2. On the transformer, locate the power button. Press and hold the power button continuously for 5 seconds without releasing it. When the blue indicator begins blinking rapidly, the transformer is in pairing mode.
3. Open your Hinkley app and from the “Home” tab, select the yellow “+” sign in the top right corner.
4. Select “Add Device.”
5. When in pairing mode, your smart transformer should automatically appear under “Discovering devices...” Once found, select “Add.” (See Fig. 1)
6. At this point, you may need to enter your Wi-Fi information. This should be as simple as selecting your preferred network and entering your Wi-Fi password. (**Note:** This step may not be needed if your Wi-Fi network is already recognized by your Hinkley app.)
7. Upon entering your information, after a brief moment, your smart transformer will then be added to your list of devices on your app.

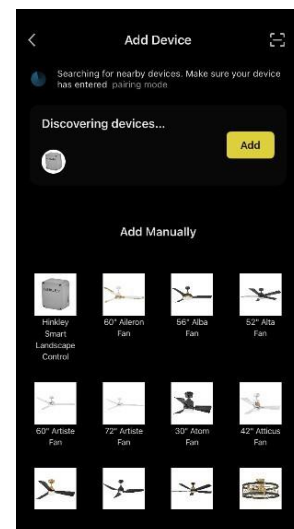



Figure 1: Discovering Devices Interface

To Reset or Reconfigure the Network Connection:

1. Press and hold the power button continuously for 5 seconds without releasing it. When the blue indicator begins blinking rapidly, the power station is in pairing mode again.
2. Then, refer to “Pairing to Wi-Fi” section above to reconnect your smart transformer.
 - If the blue indicator stays on: it means the smart transformer is on and with output voltage
 - If the blue indicator stays off: it means the smart transformer is off and with no output voltage
 - If the blue indicator keeps flashing: transformer is overloaded or short circuited

Setting Up Zones:

1. After wiring and pairing your transformer to Wi-Fi, the Hinkley app can be used to control the channel zones. Select your smart power station device from the “Home” tab.
2. The smart transformer has three channels, each corresponding to a different zone. These zones can be controlled individually or in unison. (**Note:** To control all three zones simultaneously, use “Total Control.”)
3. Whenever the device is selected, the power readout, total control, and three zones will be displayed. (See Fig. 2) By selecting the icon to the right of the power readout, transformer can be toggled between 12V and 15V.
4. In some cases, such as very short runs or when using incandescent lamps, it may be necessary to select the “12V” option to reduce the initial output voltage of the transformer.
5. By selecting the “pencil” () icon next to the device name, you can access the device settings.
6. By selecting either “Total Control” or “Zone#”, the following functions can be accessed:
 - **Schedule:** Allows set-up of daily or weekly lighting schedules.
 - **Timer:** Allows timer function for zones or entire landscape lighting system.
7. Additionally, zones and total control can be renamed when selected.

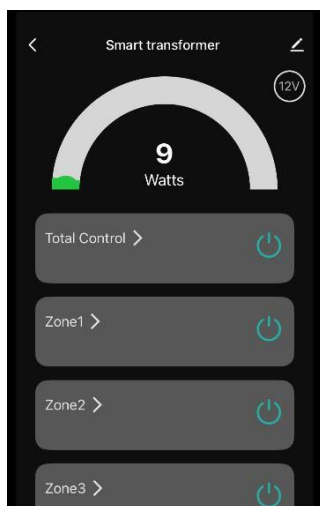


Figure 2 : Smart power station interface

Wattage Reporting via Hinkley App:

1. Within the Hinkley app, after selecting the smart transformer device, the load currently being applied to the transformer will be displayed.
2. When nothing is powered on, the meter will show “NO LOAD” and be grey.
3. Upon powering any or all of the zones, the load will then be displayed in Watts. When utilizing an appropriate amount of power, the meter will appear green.
4. As the transformer is loaded, the meter will gradually change color. After exceeding 80% of the power rating (200W), the meter will be red. When the load exceeds 120% of the power rating, the transformer’s overload protection will activate and shut down the transformer.

If preferred, use keyhole template below to assist in mounting:

