

## 10 -Year Comprehensive Warranty

Our commitment to quality is reflected in our 10 -Year Warranty. If within ten (10) years from the installation date of the Smart Optimizer 1200 System, if the product fails due to a defect in materials, workmanship, or damage caused by lightning, we will repair or replace the affected System free of charge (excluding shipping and handling).

**Note: Warranty only valid with completion of warranty registration within 30 days of installation of the Optimizer 1200.**

### Warranty Exclusions:

- Damage resulting from accidental mishandling, dropping, or other physical abuse.
- Systems that have been opened, disassembled, or subjected to unauthorized repairs.
- Systems that have not been installed or used according to provided instructions.
- Damage caused by riots, civil disturbances, war, or other acts of God.

This warranty does not cover damages exceeding the cost of the installed System. Please note that while this warranty outlines specific legal rights, your actual rights may vary depending on the state.

For warranty service, please contact our customer support department at: [info@GoSmart.Energy](mailto:info@GoSmart.Energy)



## Optimizer 1200

*Installation Instructions & Warranty Information*

*Scan To Register Warranty*



6/15/2025

SINGLE PHASE  
APPLICATIONS  
ONLY

Lower your electric bill, extend the life of your appliances, motors, and protect your home from power surges!

**IMPORTANT: Do NOT use on a 3 Phase System**

## OPTION 1: (Basic) Installation at Panel

The Optimizer 1200 is an option for lowering your power bill. Here is how it works:

Power companies have openly admitted that the power meter they install on your property is calibrated for the base frequency (60Hz). Harmonics (other frequencies than 60Hz) can cause the meter to calculate inaccurately, and as a result, you may be billed for electric usage that you didn't actually use.

### Power Quality Reference Guide:

Certain items in your home create magnetic fields (most electronics including transformers in computers, screen TVs, refrigerators, air conditioners, etc.). These fields cause harmonics in your electrical system, also known as "dirty power." The Optimizer 1200 acts as a harmonic filter by filtering these harmonics and causing the power to be measured more accurately, resulting in lower power bills. The effectiveness depends on how much "dirty power" there is to clean up. This device connects to your electrical system, and only one Optimizer 1200 is needed per panel.

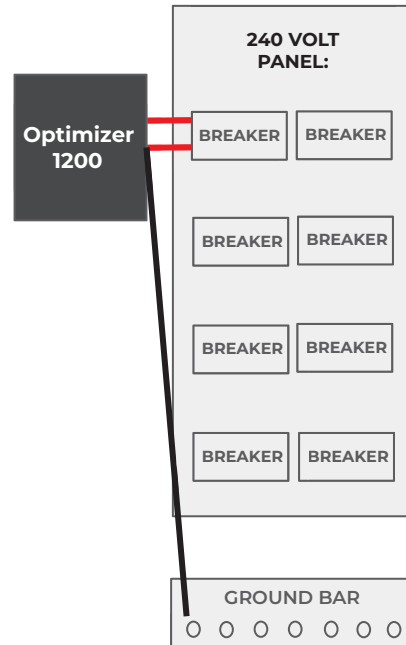
### Installation Steps:

1. **Turn Off Power:** Before opening the breaker panel, ensure the main breaker is in the OFF position.
2. **Keep Power Off:** The power should remain OFF until the entire installation is complete.
3. **Breaker Connection:** The System does not have to be on a dedicated breaker and does not violate any building codes as it qualifies as a surge suppressor. It can be piggybacked.
4. **Access Breaker:** Remove the TABs (knockouts) from the cover, allowing access to the breaker. Feed the wires through the knockout.
5. **Connect Wires:** Secure the two red leads (wires) of the System to the double pole 20-30 amp breaker (one on each terminal). Secure the green wire from the System to the ground bar in the panel. Leave the breaker in the OFF position until power is restored to the panel. Reinstall the panel cover securely.
6. **Power On:** Turn the main breaker back on. Flip the breaker to ON and check that the indicator light is ON. This indicates that the System is functioning and the installation is complete.
7. **Troubleshooting:** If the light is NOT ON, turn off the power and check the connections. Ensure good contacts are made with the two red wires and the breaker. If the light still does not come on, you likely do not have 220/240 volts going to the System's breaker.

### Notes:

- The System is enclosed in a rain resistant box, allowing it to be installed indoors or outdoors, but it cannot be installed underwater.
- If your System is humming, this is a sign that you are receiving high voltage. This will not damage the System and can occur at various times.

**WARNING:** Ensure your Optimizer 1200 is installed by a licensed electrician. Improper installation of electrical equipment can lead to electric shock, severe injury, or even death.



## OPTION 2: (Advanced Installation at Load (Best Reduction in KWH

### Key Note:

The key to reducing KWH is to install the Optimizer 1200 as far from the Power Company's meter as possible. The further the distance, the more significant the drop in KWH.

1. **Hiring a Professional:** We recommend hiring a qualified electrician or A/C technician to install the Optimizer 1200 directly to your central A/C, air-to-air heat pump system, or pool/water pump. Please read through these instructions fully before starting installation to save time.
2. **Mounting the System:** The Optimizer 1200 can be mounted on a wall behind the unit or to the side. The Optimizer 1200 should be wired to the load side of the power relay, so the system turns off when the compressor/motor is off and turns on when the compressor/motor is on. This prevents overcorrection of other loads.
3. **Secure Installation:** Mount the main box securely, ensuring the seal-tite reaches the fitting installed on the A/C, heat pump, or pool pump. Be cautious not to puncture a condenser tube while mounting!
4. **Measure Amperage:** Use your amp probe to get a reading under full load at the disconnect and note this reading down for comparison after the installation.
5. **Connecting to Load:** To connect to the A/C, heat pump, or pool pump, turn off the power at the disconnect. Remove the cover to access the power relay. Identify which side is the line side and which is the load side. You will connect the Optimizer 1200 to the load side. If needed, you can turn the breaker back on and use a voltmeter to confirm which side is which. Cut the seal-tite so it will reach from the Optimizer 1200 to the unit.
6. **Seal-Tite Installation:** Slide the seal-tite over the wiring, ensuring the wires don't push back into the box. Once the wire is through the seal-tite, pull the wire ends while sliding the seal-tite up to the box, and push it into the fitting on the bottom of the Optimizer 1200 (this is a quick-connect fitting). Install the other quick-connect fitting into the A/C, heat pump, or pool pump, and insert the wiring while pushing the seal-tite into the fitting.
7. **Final Connections:** Find the green ground wire, strip 1/2" of insulation, and fasten this wire to the ground bar or lug. Now strip 3/8" of insulation from the red wires and connect them to the load side of the relay, ensuring the Optimizer 1200 is on when the A/C, heat pump, or pool pump is on and off when they are off. Find the green ground wire, strip 1/2" of insulation, and fasten this wire to the ground bar or lug. Now strip 3/8" of insulation from the red wires and connect them to the load side of the relay, ensuring the Optimizer 1200 is on when the A/C, heat pump, or pool pump is on and off when they are off.
8. **Power Test:** Turn the disconnect back on and put the unit under full load to test. Check the amps at the disconnect on the line side (upstream) and ensure the reading has decreased from your initial reading. If the amperage increases, remove the Optimizer 1200 immediately to avoid motor damage. This would indicate the system is too large for your application, and you need a smaller model.
9. **Final Check:** If there is no change in amperage, measure further upstream, as the load side (downstream from the Optimizer 1200) will not change. Double-check the installation. Reinstall the cover, and you're now saving money. You will need one Optimizer 1200 for each motor you are correcting.

### Notes:

- Remember that items like refrigerators or washers/dryers may not justify a dedicated unit due to low energy savings.

**CAUTION:** Risk of Electric Shock! DO NOT OPEN. There are no serviceable parts inside. Disconnecting the protective earth conductor may compromise the performance of this product. It is strongly advised not to place any switches or fuses in-line with the earth conductor.