

Solar PV System Management for On-Site Staff

SolarEdge Inverters

This resource should be physically available to on-site staff who manage SOMAH Program-incentivized solar PV systems with SolarEdge inverters.

This resource includes information on the following sections:

1. Understanding Inverter LED Indicators
2. Troubleshooting Guide
3. Resources

1. Understanding Inverter LED Indicators

Most inverters have three LED indicator lights: green, blue and red. Meanings for the indicators are as follows:

- Static **green** LED = inverter is operating
- Static **blue** LED = inverter is communicating
- Any **red** LED = inverter error
- No lights = Possible loss of AC power

On-site staff should periodically verify at each inverter that the **blue** and **green** lights are on and solid. If a **red** light is on or blinking, then there may be an inverter error.

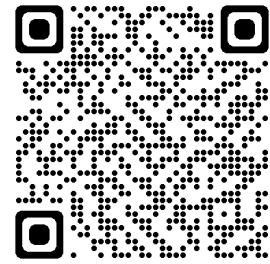
If the system is running properly, the **green** and **blue** LEDs should **always** be **ON**. See images below.



Many factors can impact system production, including external conditions (i.e., weather, shaded solar panels), utility grid or other system errors. Not all errors or error codes imply a production problem.

Note: Solar PV systems do not produce energy during the night.

During normal hours of solar availability, around 9 a.m. to 3 p.m., if the LEDs at the bottom of the inverter are NOT solid **green** and **blue**, you may refer to SolarEdge's guide for a full description of inverter LED indicators by following the QR code. If any LED indicator anomalies are observed other than the solid **green** and **blue** lights, on-site staff should document any anomalies or indications of errors and contact the solar installer with the findings.



Quick Q&A

Q: Where can I find the inverters?

A: The inverters are often on the building's exterior or in an electrical room near other solar equipment. For SolarEdge systems, look for the white units as shown in the photo.



2. Troubleshooting Guide

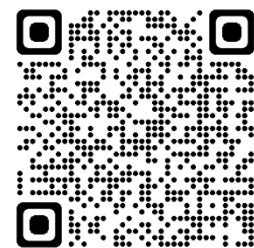
*Disclaimer: **Do not** attempt to repair the inverter or power optimizers without a SolarEdge-certified installer or electrician. While SolarEdge systems comply with all safety regulations, handling electrical equipment and components requires a certified installer or electrician.*

Note: It is recommended to connect the solar PV system to the SolarEdge monitoring platform. This will enable the solar installer to provide enhanced production monitoring and yield assurance through immediate fault detection and alerts at the module level, string level and system level.

Quick Q&A

Q: What if we changed the Wi-Fi network or the password has changed? Why is the **blue light on the inverter off?**

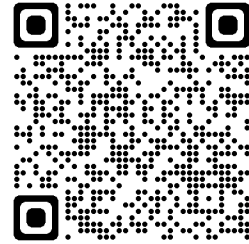
A: You may need to reconfigure the inverter communication if there are any changes to the Wi-Fi network. To configure the inverter communication, you will need to use the MySolarEdge mobile app. Take the steps provided by SolarEdge by following the QR code.





Q: *What happens during a power outage?*

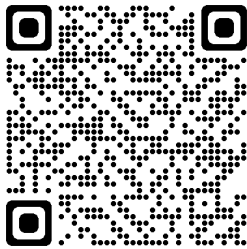
A: When a power outage occurs, the solar PV system’s safety features will shut the system down automatically. Once the grid is restored (the power outage is over), SolarEdge inverters will automatically resume operation. The inverter will not produce power during a power outage. Find more information from SolarEdge by following the QR code.



3. Resources

If additional support is needed to navigate the SolarEdge monitoring platform or troubleshoot your system, please use the resources below to request SOMAH’s Technical Assistance and Support Services.

- calsomah.org/TA-request
- QR code:



SOMAH TA and Support Services Request Form