

solaredge

**S-Series
Power Optimizers
for Commercial
Installations**

**Smart.
Simple.
Safe.**



/ Our Most Advanced Power Optimizer Yet

SolarEdge revolutionized the world of green energy with the invention of the DC optimized inverter solution, forever changing the way solar energy is harvested in PV systems. By connecting one Power Optimizer to every two modules in a commercial PV array, we enable maximum energy production and system safety while maintaining a competitive cost structure.

SolarEdge Sense Connect Technology raises the bar in PV safety

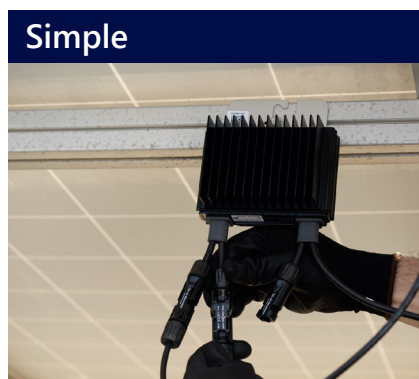
The S-Series Power Optimizers introduce patented SolarEdge Sense Connect technology that monitors the connectors while the PV system is producing energy. It detects any irregularities in PV connector temperature, and shuts the PV system off before an electric arc event can occur or connectors are damaged. Installers are notified and are directed to the exact event location, saving considerable maintenance time*. This extra level of protection surpasses even the most stringent arc detection standards.

Also new in the S-Series

- / More power with up to 24A output per string
- / Support for high input current, bi-facial and high-power 700W modules, including G12
- / Connectors are positioned higher for easier installations and to minimize exposure to isolation faults
- / Easier project design, ordering and logistics as each S-Series Power Optimizer is compatible with a wider range of modules, so fewer models are needed



Smart
Pinpointed notification of thermal events for faster O&M and maximized system uptime.



Simple
Easier cabling for faster installations.

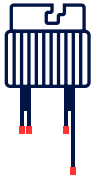


Safe
Groundbreaking technologies that safeguard against potential hazards occurring onsite.

* Pending inverter firmware update

/ How Does SolarEdge Sense Connect Work?

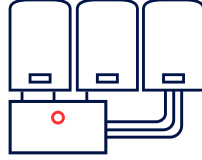
Detect



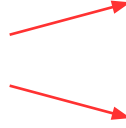
Identifies imminent arc threat



React



Inverter switches the system to a safe mode and voltage



Notify



Monitoring Platform

Faulty connector location is visible in the physical layout



SetApp

Notifies installer, including location identification

/ Delivering Maximum Power Safely

The SolarEdge approach to safety is holistic. We integrate multiple safety features to truly protect people and property, providing a safe working environment for installers, maintenance workers and firefighters. Our systems meet the highest benchmarks of insurance companies and international safety regulations around the world.

Here are our three safety pillars:

A new level of electric arc protection

An unattended electric arc could develop into a fire. Our arc fault protection feature detects electric arcs and terminates them by automatically shutting off the inverter. SolarEdge Sense Connect, identifies abnormal thermal events in the connector and prevents electric arcs from forming.

DC voltage that's safe to the touch

Our SafeDC™ technology built into every Power Optimizer ensures the PV system's DC voltage is automatically reduced to touch-safe levels (1V DC per module) within five minutes, during grid failures or when the inverter is shut down. With our optional **Rapid Shutdown** feature, installers can activate SafeDC™ at the flip of a switch, discharging the conductors to safe voltage levels within just 30 seconds.

Real-time module-level monitoring

A central component to our safety suite is our Monitoring Platform featuring an advanced alerts mechanism, which gives installers a powerful tool to manage their solar installations. Automatic, pinpointed notifications on system issues help prevent potential safety risks while enabling rapid, remote troubleshooting and superior asset protection.

/ Exceptional Performance with the S-Series

SolarEdge delivers just what your customers are looking for in a commercial PV system - higher energy production.

Our Power Optimizers significantly improve solar installation performance over time. By controlling and monitoring energy production of every two modules, Power Optimizers can mitigate power losses caused by module mismatch (e.g., due to shading, soiling, module aging, manufacturing tolerance, different tilt & orientation, bi-facial modules, etc.).

Supporting all types of commercial sites such as rooftop, ground mounts, Agri-PV, floating PV and carports, Power Optimizers enable even more power with optimal usage of installation area.

They are highly efficient (99.5%), and together with individual Maximum Power Point tracking per module, enable system owners to generate more energy. As always, installers and system owners benefit from real-time, module-level performance monitoring accessible from anywhere, with their SolarEdge monitoring app.

Lower BoS and labor costs are possible with up to 2X longer string lengths, delivering up to 50% less cables, fuses and combiner boxes. Easy cable management also contributes to fast and accurate installations.

/ SolarEdge Sense Connect Offers Installers



Early detection of imminent arc threat



Onsite and remote identification of faulty installation



Fast detection of faulty connection location



Automatic system shutdown

/ Benefits You Expect From SolarEdge

- / 25-year Power Optimizer warranty
- / Robust and reliable technology
- / Advanced safety built-in
- / Higher system energy production

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About SolarEdge

SolarEdge is a global leader in smart energy technology. By deploying world-class engineering capabilities and a relentless focus on innovation, we create smart energy products and solutions that power our lives and drive future progress.

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