

solaredge

S-Series Power Optimizers

**Maximum
Solar Project
Safety**



/ An Industry First in Safety

Taking Our Power Optimizers to the Next Level

Featuring patented Sense Connect technology, SolarEdge S-Series Power Optimizers automatically detect and prevent potential electric arcs at the connector level, rather than just the string level. With the ability to detect the slightest change in temperature, Sense Connect constantly monitors Power Optimizers' connectors, identifying improper connections and possible malfunctions from connector wear and tear, enabling to stop power flow before an arc occurs. This is an extra layer of protection in addition to our industry-leading built-in AFCI technology.

Maximize system uptime, protection of people and property, and reduce labor costs with real-time alerts and the ability to pinpoint issues with precise locations for fast resolution.

More Power and Peace of Mind with S-Series

The next step in exclusive, SolarEdge-developed innovation, our S-Series Power Optimizers are DC-DC converters that directly connect to every other rooftop, ground-mount, or carport module in your C&I array. Should one module underperform, others will automatically compensate, and prevent mismatch related loss due to shading, soiling, manufacturing tolerance, different tilts/orientation or aging. Further, adding Power Optimizers to bifacial modules can mitigate the electrical losses caused by the varying ground albedo, shading, obstructions or other rear-side factors.

With all-module compatibility, and the ability to position at multiple angles, you can deliver maximum energy production AND cost-efficiency.

Now with **Sense Connect Technology**, you will also deliver **maximum PV site protection**.

S-Series Features:

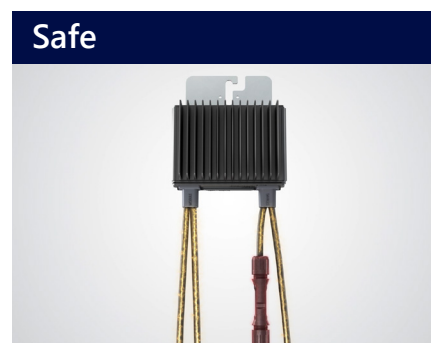
- / 18A per string allows longer strings minimizing Balance of System Costs
- / Reduce time onsite with the ability to use longer, fewer strings
- / Simplify installs with an easily managed cable layout of one short+one long output cables - instead of two long cables.
- / Stay flexible with high input current, bi-facial & higher power module support
- / Streamline design, ordering, and logistics by going exclusively with S-Series



Quick resolution and maximized uptime with real-time, pinpointed alerts of thermal events.



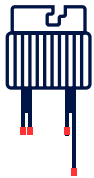
Reduce time onsite with an easily managed cable layout of one short+one long output cables - instead of two long cables.



Keep workers, personnel & assets safe with SafeDC feature, which reduces voltage to touch-safe levels.

/ How SolarEdge Sense Connect Works

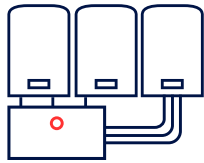
Detects



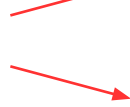
Identifies imminent arc threat



Reacts



Inverter switches the system to a safe mode and voltage



Alerts



Monitoring Platform
Faulty connector location is pinpointed



SetApp
Installer is notified with issue and precise location

/ A Smart System Is a Safe System

Protecting people and property through a safe working environment is SolarEdge's number one priority – which is why our systems meet & surpass the highest benchmarks of insurance companies and worldwide regulations.

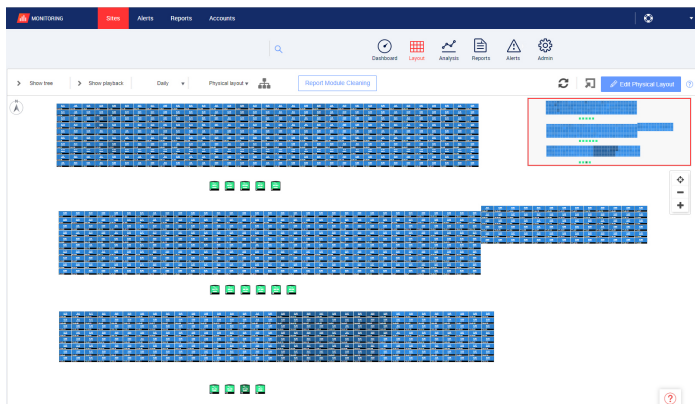
Fast, Touch-Safe Solution

Our exclusive, **SafeDC™** technology works with our inverter+Power Optimizer solutions to ensure system voltage automatically reduces to touch-safe levels (1V DC per module) within five minutes of grid failure or inverter shutdown.

AND with our Rapid Shutdown feature, installers can manually activate SafeDC™ at the flip of a switch, reducing the system to touch-safe levels in **30 seconds**.

100% Real-Time Visibility

Further minimize safety risks and downtime – while maximizing production and cost-efficiency – with 24/7 system monitoring at the module level, real-time advanced alerts and remote troubleshooting.



/ Flexibility to Succeed Anywhere

Supporting all types of commercial sites, including ground-mount and carport, our Power Optimizers help generate maximum power in some of the most challenging environments – thanks to a 99.5% efficiency and the ability to track sunlight at multiple angles through Maximum Power Point Tracking (MPPT) per module.

AND keep BoS and labor costs down with up to 2X longer strings and up to 50% less cables, fuses, and combiner boxes. Stay light on your fleet and fit more projects in.

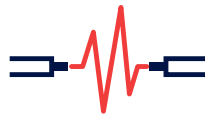
/ Sense Connect Overview



Early detection of imminent arc



Precise location identification



Real-time alert of faulty connection location



Automatic system shutdown

/ By the SolarEdge You Know

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

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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