



S650A Power Optimizer- the new short-strings solution

Bringing the Power of SolarEdge Home to small
and multifaceted rooftops



Pioneering Power Optimizer technology – now for short-strings

SolarEdge revolutionized the world of green energy with the invention of the DC-optimized inverter solution. Splitting the traditional functions of the inverter with a Power Optimizer connected to each module, the SolarEdge solution is a safer, more productive system that is easy to install.

Now, our world-leading Power Optimizers are available for small and multifaceted rooftops with the new S650A.

**Reducing the minimum
number of Power Optimizers
per string**

- **S650A + SolarEdge Home Hub/Wave Inverter – Three Phase** supports ≥ 10 modules (instead of 14 as with other Power Optimizers)*

* The S650A is only supported by:
- SolarEdge Home Wave Inverter- Three Phase (SExxK-RW0TEBxN4) from firmware version 4.22.XX and above, for inverters produced after WW42/2020. You can find the production date in the serial number on the inverter label (S/N: SJWWYY-xxxxxxxx-xx).
- SolarEdge Home Hub Inverter- Three Phase (SExxK-RWB48BFN4) from firmware version 4.22.XX and above.
- The S650A Power Optimizer can't be mixed with any other Optimizer on the same inverter.
- SolarEdge is also working on future support for SolarEdge Home Single-Phase Inverters.



S650A is a gamechanger:

- Enables SolarEdge Home ecosystems for smaller roofs
- Improves design flexibility in complex, multi-orientation roofs due to its higher-voltage output
- Compatible with a wide range of modules including high-powered
- Compatible with SolarEdge Home Wave/Hub Inverters – Three-Phase

More Power for Short-Strings

The S650A enables smaller residential rooftops to deliver solar energy with fewer Power Optimizers (and modules) and faster installation. With 110V maximum output voltage, the S650A Power Optimizer delivers design flexibility not previously available for smaller sites. The extended voltage also reduce yield factor losses, providing customers with more solar energy for their investment.

One vendor for everything

S650A Power Optimizers are a building block of the scalable SolarEdge Home ecosystem; your customers can add storage*, EV chargers, and smart energy devices according to need, while you have ordering, support, and warranties from one trusted source. SolarEdge is a global leader in the renewable energy field.

* Supported with SolarEdge Home Hub Inverter Three-Phase. Backup applications are subject to local regulations and require connection with SolarEdge Home Hub Inverter and the SolarEdge Home Backup Interface.



Suits small complex rooftops



Significantly increase the maximum output voltage



Supports newer, high-power solar modules

Industry-first Sense Connect exceeds the most stringent arc detection standards

Featuring patented Sense Connect technology, SolarEdge S-Series Power Optimizers are designed to automatically detect and prevent potential electric arcs at the connector level before an arc is created, with the ability to detect an abnormal temperature at the input and output connectors of the Power Optimizer.

Increasing system safety

Also integrating other proprietary, multi-level safety features, our solutions meet the highest benchmarks of insurance companies and international safety regulations around the world.

About SolarEdge

SolarEdge Technologies is a global leader in renewable energy technology that applies world-class engineering and innovation to provide solar PV solutions for the residential, commercial and utility segments. SolarEdge brings an optimized approach to generating, storing, managing and consuming energy. The company develops and produces PV inverters and Power Optimizers, energy management and optimization solutions, energy storage and grid services. SolarEdge's DC-optimized technology is installed in millions of homes in over 140 countries, and more than 50% of Fortune 100 companies have SolarEdge technology on their rooftops. SolarEdge is accelerating the transition towards distributed, sustainable energy networks which will optimize energy everywhere.



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