

At a glance ...

SolarEdge



Product advantages

SolarEdge Technologies was founded in 2006 and is a technology provider and worldmarket leader in the area of solar power electronics on module-level.

In contrast to traditional manufacturers of solar inverters, the company's approach lies in a decentral management and module-level monitoring of energy production. Core components are so-called power optimisers, which ensure the highest possible energy yield for each solar module. The system is complemented by an online platform for monitoring and error detection on module-level as well as an inverter, which is reduced to the core functions and therefore less expensive and which enables a reliable power transformation. Furthermore, SolarEdge offers solutions for the integration of battery storage systems as well as EV chargers. The technology is suitable for residential, commercial and utility-scale solar installations. All components of SolarEdge power electronics are produced in highly modern manufacturing facilities in Israel, Asia and Europe and fulfil all common product requirements even under extreme conditions.

solaredge



Optimisation of yield and self-consumption

- Constant tracking of maximum power point (MPP) as well as power and voltage adjustment helps to prevent mismatching-losses and ensures maximum energy yields even in cases of partial shading
- One- and three-phase inverters with a high efficiency of up to 99.2 %
- Integration of storage solutions for on- or off-grid applications in order to increase the level of self-consumption
- 2-in-1 inverter and EV charger: maximization of self-consumption and solar boost mode for faster charging

Plant monitoring

- Module-based monitoring guarantees a quick error detection, report and correction
- Real-time warnings in case of a system failure are visualised on module-level on a virtual sitemap of the solar plant
- Free monitoring via computer, smartphone or tablet for a period of 25 years

Security

- 25 years product warranty for power optimisers, 12 years product warranty for inverters
- Optional warranty extension to 20 or 25 years
- The SafeDC™ mechanism ensures safe installation, maintenance and security in case of fire
- German jurisdiction: Frankfurt/Main

Flexibility

- Maximum roof utilisation and simple plant design through a fixed string voltage
- Combination of modules with different sizes and levels of performance in one string
- Diverse electrical connectors for the connection of power optimisers to each module or module-integrated optimisers are available
- Fast inverter commissioning via SetApp