solaredge

Optimizing Commercial PV Systems

More power, more revenue, and more insight into your system performance

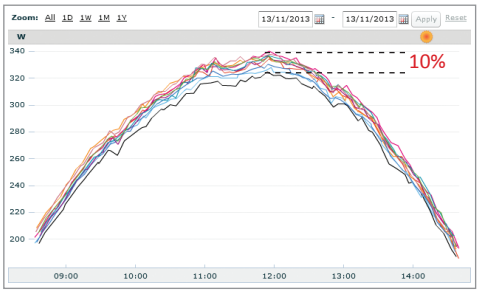
Improve Your Bottom Line

Harvest more power from each module

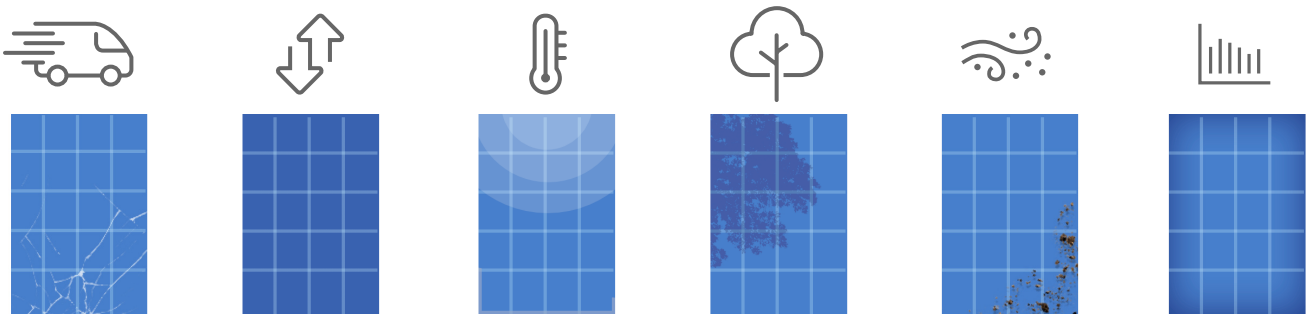
SolarEdge mitigates power losses due to mismatch between modules for maximum power generation from each module. With SolarEdge, weaker modules do not affect the strong ones.

10% module mismatch

Screenshot from the SolarEdge monitoring platform, showing power curves of 10 adjacent modules in a string with 10% mismatch between highest and lowest performing modules.



Common reasons for module performance mismatch sources

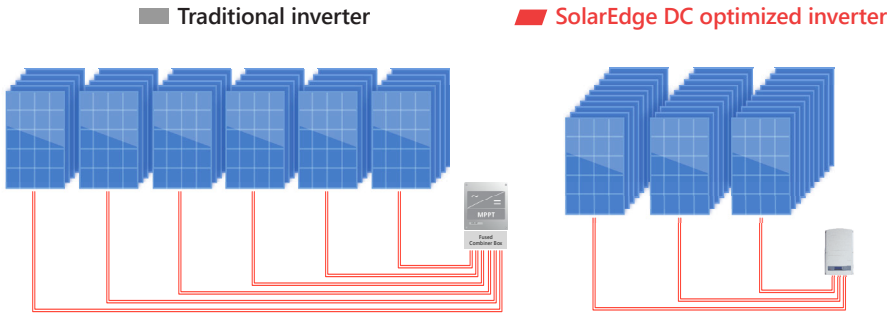


Transportation damage | Different tilt & orientation | Thermal mismatch | Partial shading | Soiling | Manufacturing tolerance

Cost saving by design

Save 50% on electrical BoS with longer strings

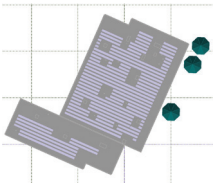
27-60 modules, up to 15kW per string



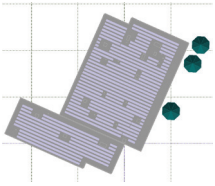
More energy by design

Increase your system capacity with more modules on the roof

Flexible site design > More modules on the roof > **More power**



Traditional inverter | 149.5kW DC



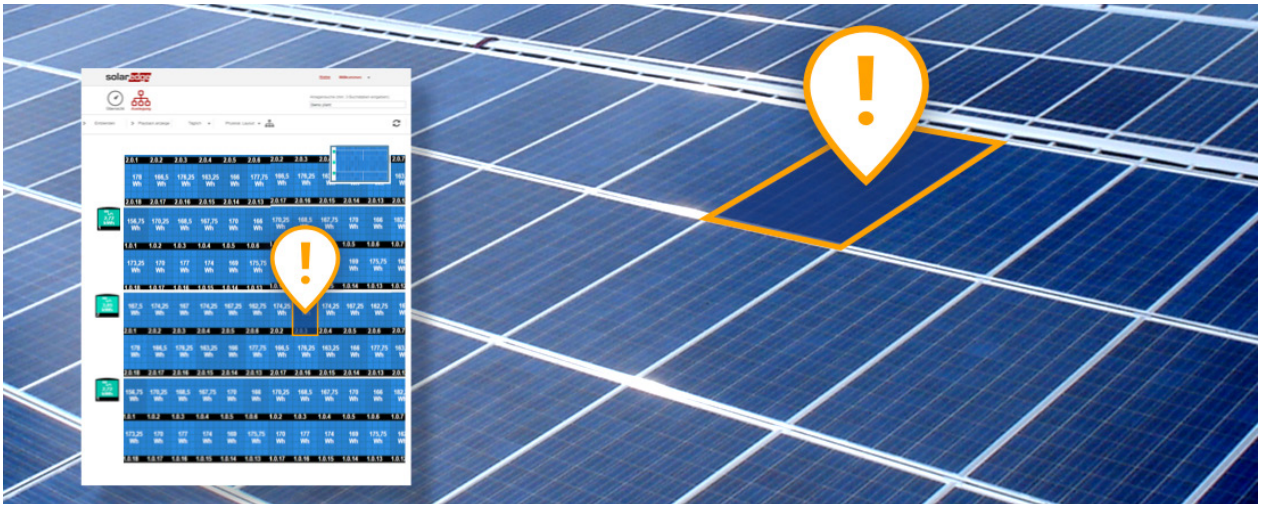
SolarEdge | 200kW DC

34% more power

Secure Your Investment

Cost-saving maintenance

- Free module-level monitoring for 25 years
- Full control of your assets
- Module-level performance monitoring and remote maintenance lead to:
  - Less trips to site and less time spent on site
  - Higher system uptime
- Complete system status on your mobile device



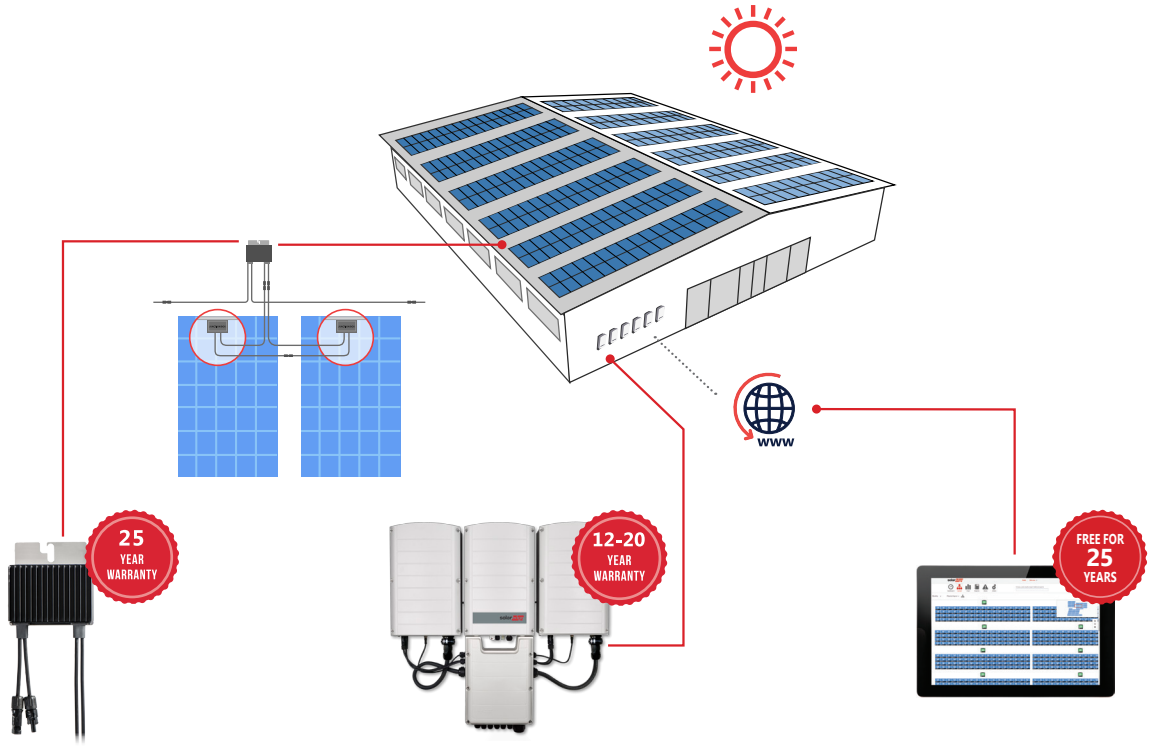
Future compatibility and warranty

- Low cost inverter replacement out of warranty
- Future module compatibility (replacement and extension)
  - New modules can be utilized in the same string with old ones

Protecting your assets

- Providing the highest safety for installers, electricians, and firefighters
- Better suited for future insurance requirements

More Power, More Revenue, More Insight



Power optimizers 2:1 and 4:1 configurations

- Module-level MPPT - no mismatch power losses
- Lower BOS costs by connecting to two or four modules, in series or in parallel
- Strings of uneven length, modules on multiple azimuths and tilts
- SafeDC™ - designed for automatic module-level safety shutdown

15kW-100kW three phase inverters

- Specifically designed to work with power optimizers
- Superior efficiency
- Easy installation, including 2-person install for large capacity models
- Built-in communication gateway
- Simple, step-by-step inverter activation and commissioning with the Inverter SetApp mobile application

Monitoring platform

- Full visibility of system performance
- Remote, module-level troubleshooting

Performance monitoring

Calculate site performance ratio and measure environmental conditions, using environmental sensors or a satellite-based service

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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