

Optimising Commercial PV Systems

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



solar**edge**

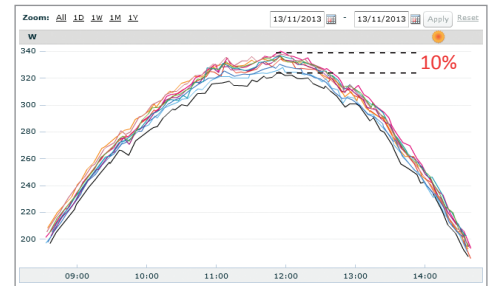
/ Improve Your Bottom Line

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.

Energy losses due to 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



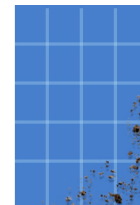
Different tilt & orientation



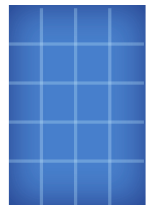
Thermal mismatch



Partial shading



Soiling



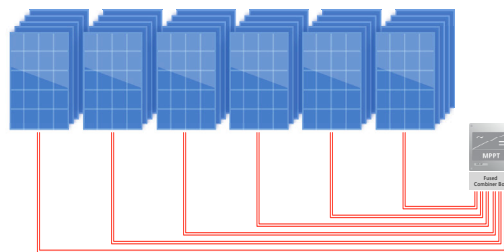
Manufacturing tolerance

Cost-saving by design

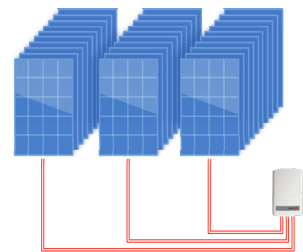
Save 50% on electrical BoS with longer strings

26-60 modules, up to 15kW per string

Traditional inverter



SolarEdge DC optimised inverter



More energy by design

Increase your system capacity with more modules on the roof

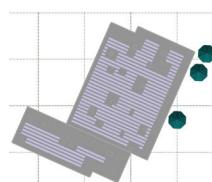
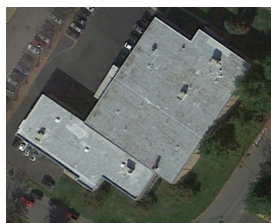
Flexible site design



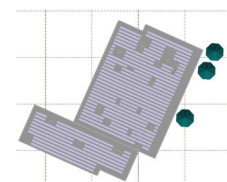
More modules on the roof



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

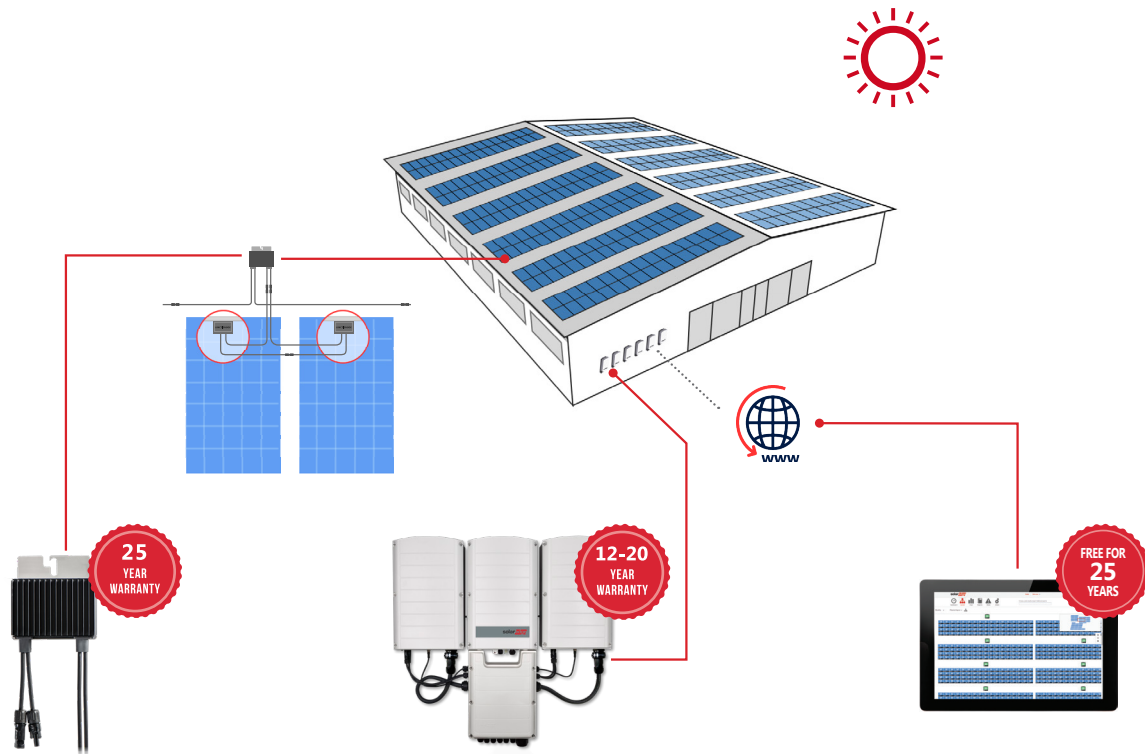
- / Low cost inverter replacement out of warranty
- / Future module compatibility (replacement and extension)
 - / New modules can be utilised in the same string with old ones

Protecting your assets

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



More Power • More Revenue • More Insight



P600 - P850 2 to 1 power optimisers

- // Module-level MPPT - no mismatch power losses
- // Strings of uneven length, modules on multiple azimuths and tilts
- // P600 & P650 compatible with three phase inverters SE15K and higher
- // P730, P800p & P850 compatible with three phase inverters SE16K and higher
- // SafeDC™ - designed for automatic module-level safety shutdown

15kW-100kW three phase inverters

- // Specifically designed to work with power optimisers
- // 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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