

Optimising Commercial PV Systems



Optimising at the Module Level

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



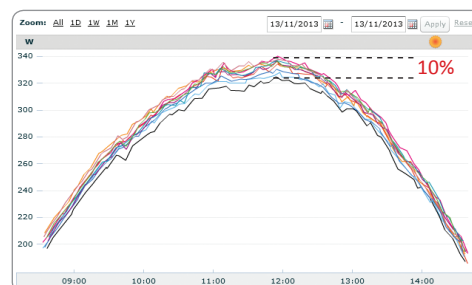
>Improve Your Bottom Line

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 portal, showing power curves of 10 adjacent modules in a string with 10% mismatch between highest and lowest performing modules



Mismatch sources

Soiling



Partial shading



Bird droppings

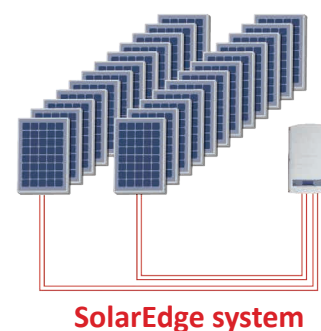
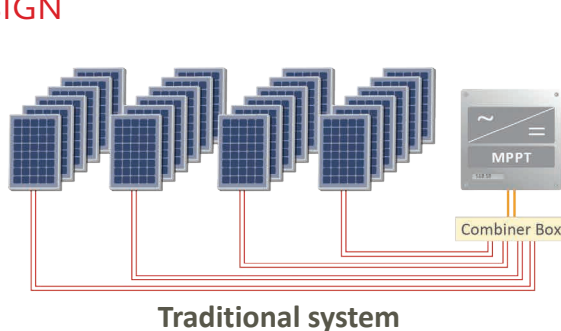


Tolerance mismatch



COST SAVING BY DESIGN

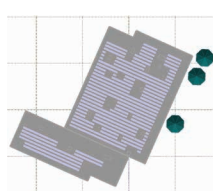
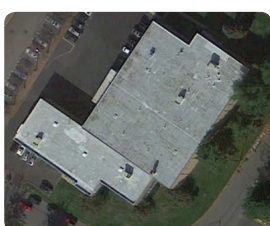
Save 50% on electrical BoS with longer strings
26-60 modules, up to 11.25kW per string



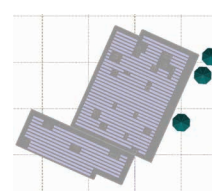
MORE ENERGY BY DESIGN

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 system lifetime
- > Full control of your assets
- > Module-level performance monitoring & remote maintenance lead to:
 - Less trips to site & less time spent on site
 - Higher system uptime
- > Complete system status on your mobile (iOS or Android)

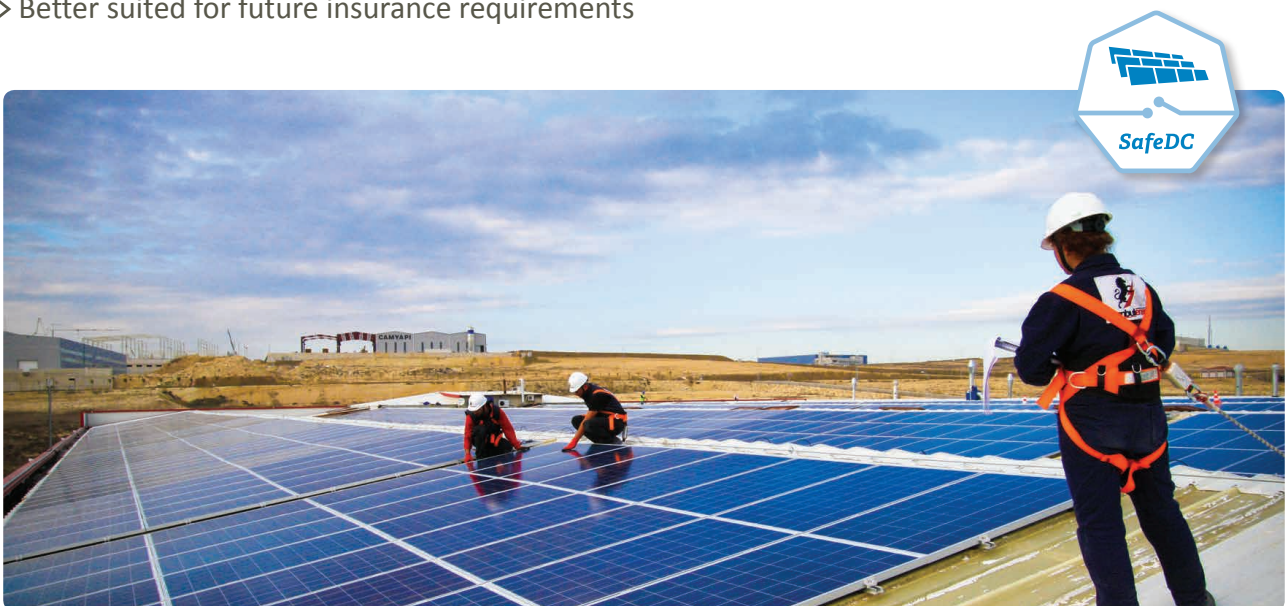


FUTURE COMPATIBILITY AND WARRANTY

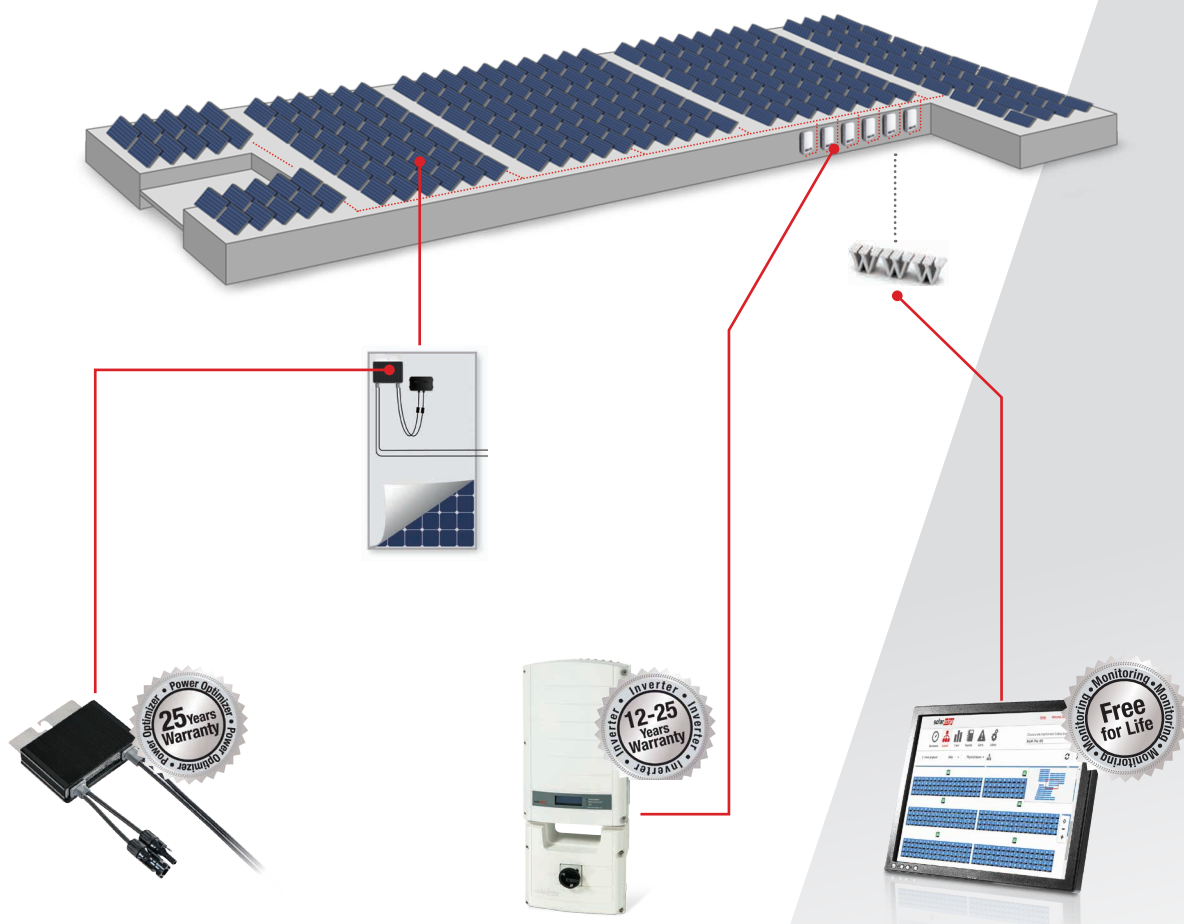
- > Low cost inverter replacement out of warranty
- > Future module compatibility (replacement & extension)
 - New modules can be utilized in the same string with old ones

PROTECTING YOUR ASSETS

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



More Power • More Revenue • More Insight



P300 / P350 Power Optimiser

Module-level MPPT - no mismatch power losses

Strings of uneven length, modules on multiple azimuths & tilts

SafeDC™ - automatic module-level safety shutdown

15kW-27.6kW Commercial Inverters

Lower cost compared to traditional inverters

Superior efficiency

Small, lightweight, easy to install

Built-in communication gateway

SolarEdge Monitoring Platform

Full visibility of system performance

Remote troubleshooting



Control and Communication Gateway

Connection of multiple sensors to analyze system performance