# The Enphase Advantage Competitive Analysis





1. https://enphase.com/sites/default/files/Study\_Comparing\_Enphase\_and\_SMA.pdf 2. https://enphase.com/en-au/support/study-energy-yield-evaluation-enphase-and-solaredge-side-side-string-lengths



#### Safe

- Self-extinguishing AC arc fault technology
- No high voltage DC on the roof
- Rapid shutdown ready
- Standard AC wiring practices



## Tough

- One million power-on hours of testing per product
- No moving parts, resulting in greater reliability
- Highest quality with IP67
  Class II enclosure
- Longest warranty on the market



#### Smart

- Enphase Enlighten<sup>™</sup> app displays per-panel energy production
- Advanced Grid Function ready, power export limiting available
- Software defined architecture enables remote software upgrades and troubleshooting
- Plug-N-Play architecture lowers costs with faster and easier installations

## Enphase Microinverter Systems

In an Enphase system, the DC generated by the solar panels is converted to AC at the module-level by the microinverter attached beneath each panel. This architecture means that, unlike traditional DC string inverters, the Enphase IQ<sup>™</sup> microinverter system provides a complete AC solution that uses no high-voltage DC, ensuring a safe solar solution for homeowners and PV professionals.



### String-based Systems

With traditional string inverters, including optimisers or not, the solar panels are wired in series. Every panel added to the series increases the DC voltage in the circuit. These systems can generate up to 1,000 volts of dangerous high-voltage DC, which must run from the panels through the ceiling to the inverter. Even the smallest equipment failure, such as a damaged cable or a loose electrical connection, can cause a DC arc fault creating a serious fire risk.



To learn more about the benefits of Enphase solar visit **enphase.com/au** 

