

LONGi Solar

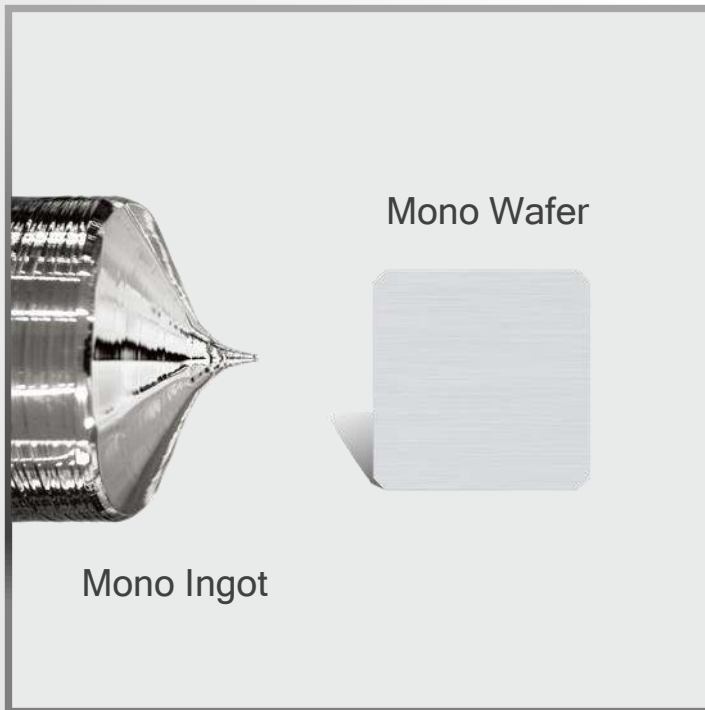
RELIABILITY CREATES VALUE

More Energy From Your Roof



Who is LONGi Solar?

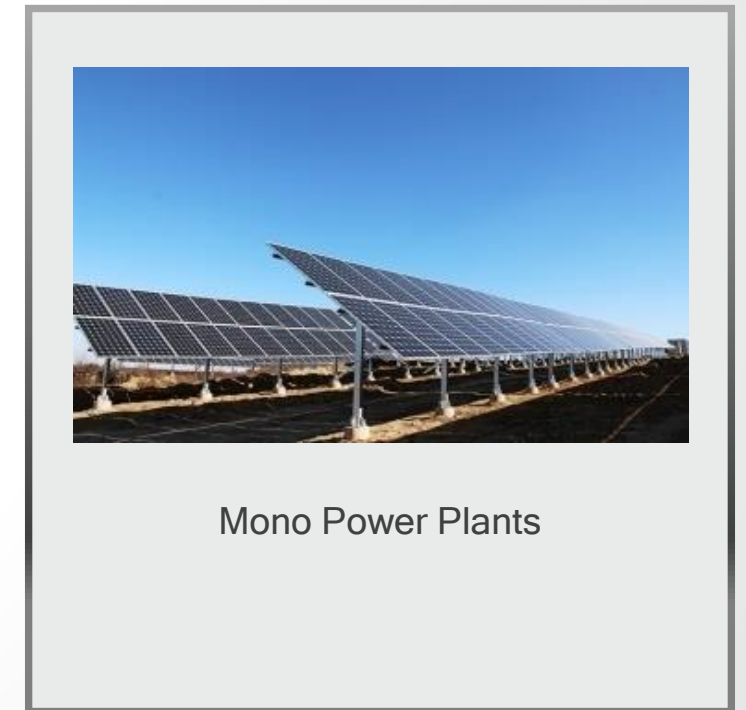
LONGi Solar is the world's leading mono-crystalline solar module manufacturer, known for developing the most cost-efficient PV solutions. LONGi's C-Si mono integrated industry chain includes ingot to wafers and cells to modules



LONGi Silicon



LONGi Solar



LONGi Energy

Choose Solar

Rooftop solar is an affordable and intelligent choice for businesses and homeowners. By producing your own energy, you gain independence from the electric utility, you can even get paid when you send excess solar power to the grid.

Solar PV makes a lot of sense, whether your goal is to minimize your carbon footprint or maximize energy savings.

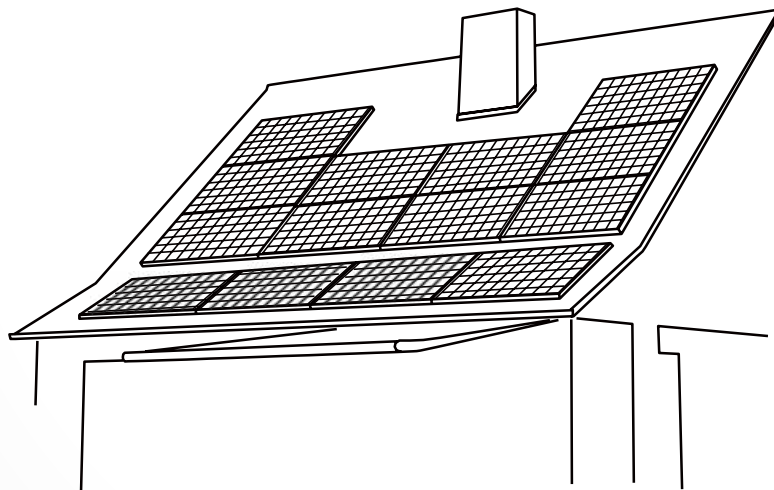
But choosing the right PV system can be daunting. You have to consider the space on your roof, how much electricity you use, the return on your investment and even the way it looks. Solar need not be complex.



WHY Mono Panels?

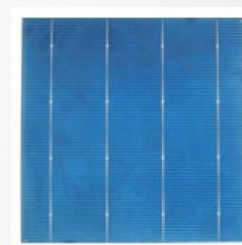
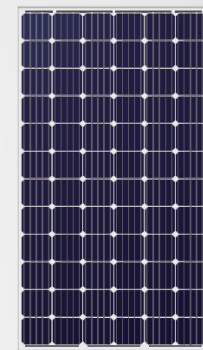
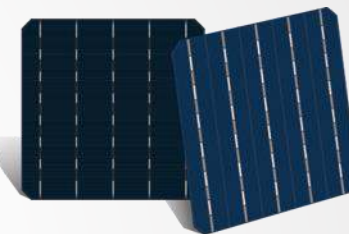
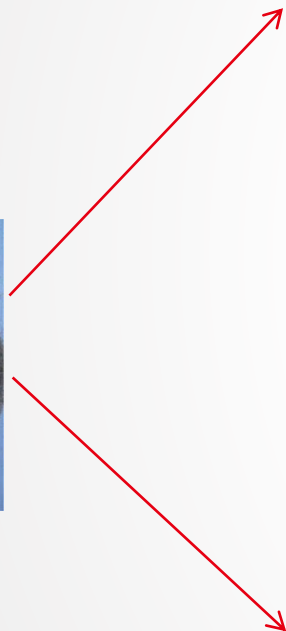
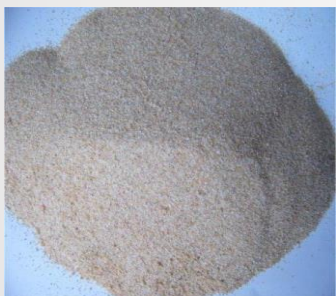
Most homes have limited usable low-shade roof areas, high efficiency PERC mono panels are the best way to produce the most power at the most cost effective price.

With standard 270W poly panels, a rooftop with 18 panels installed will have a capacity of 4.86KW-peak. Using high-efficiency mono PERC 310W panels, the same space will have 5.58KW-peak, 14.8% more power.

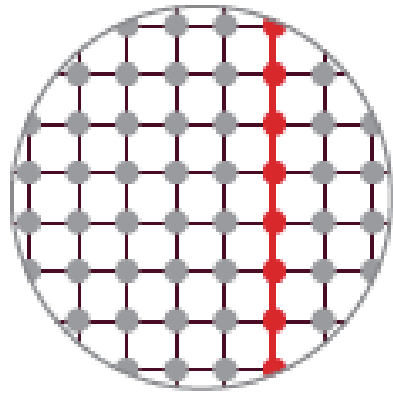


18pcs mono panels of 310W produces 14.8% more power than 18pcs standard 270W panels

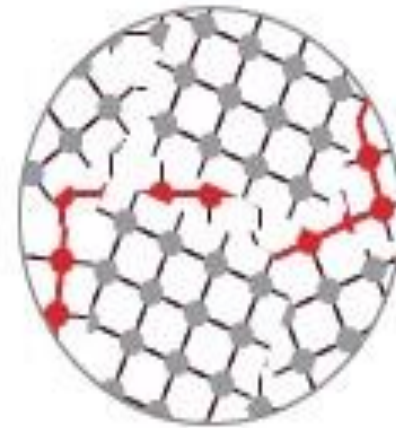
Mono VS Poly



Mono VS Poly



Mono silicon structure



Multi silicon structure

If your goal is to save money on electricity, then it makes sense to choose the technology that generates the most power. Mono modules demonstrate lower long-term degradation than C-Si multi modules, resulting in more electricity generated.

Why LONGi Solar?



The company is focused solely on high-efficiency mono-crystalline technology, with in-house production of wafer, cells and modules, allowing us to achieve quality, efficiency, and scale at respectable costs

LONGi is the world's #1 mono crystalline silicon wafer manufacturer, with 18GW capacity in 2017 and planned growth to 45GW in 2020.

Module shipments in

Mono module shipments in 2017 was 4.5GW

24.06%

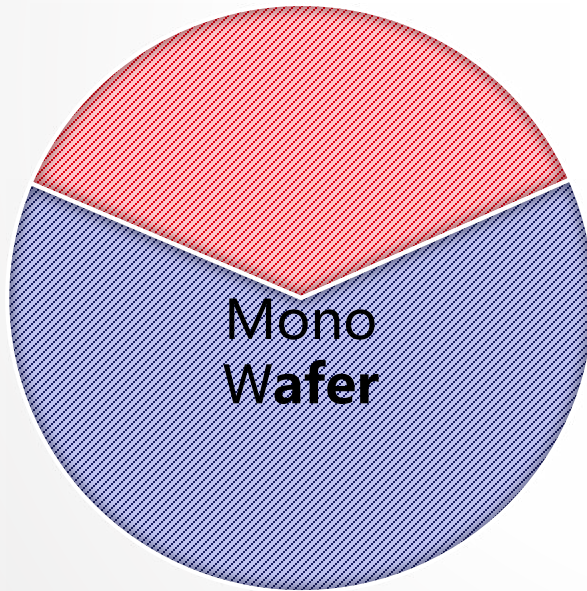
WORLD RECORD HOLDER
Mono PERC cell efficiency of 24.06% in January 2019

LONGi Solar invested an industry leading, 7% of our revenue, on research and development.

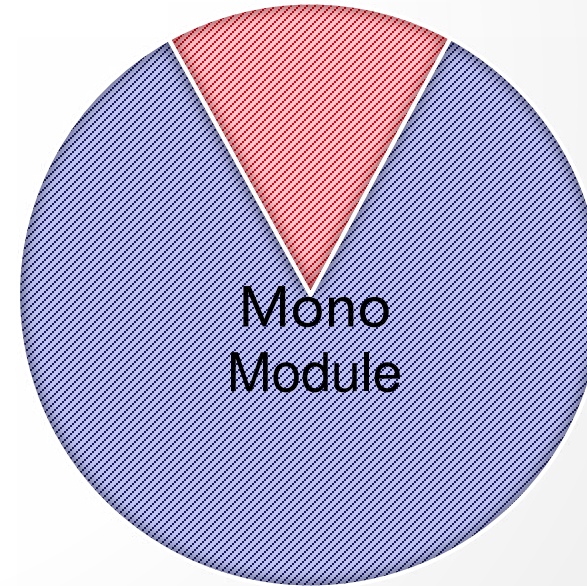
Why LONGi Solar?

Global market share by LONGi

37%



16%



Data source: IHS2017 Capacity and output statistics of global PV manufacturers

Product Family for Rooftops



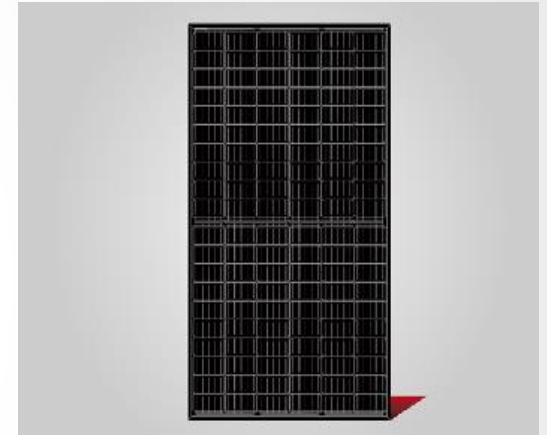
Mono PERC
Highest efficiency panels



Mono PERC Half-Cut
Highest energy output



Mono PERC All-Black
Black-on-black for a sleek look

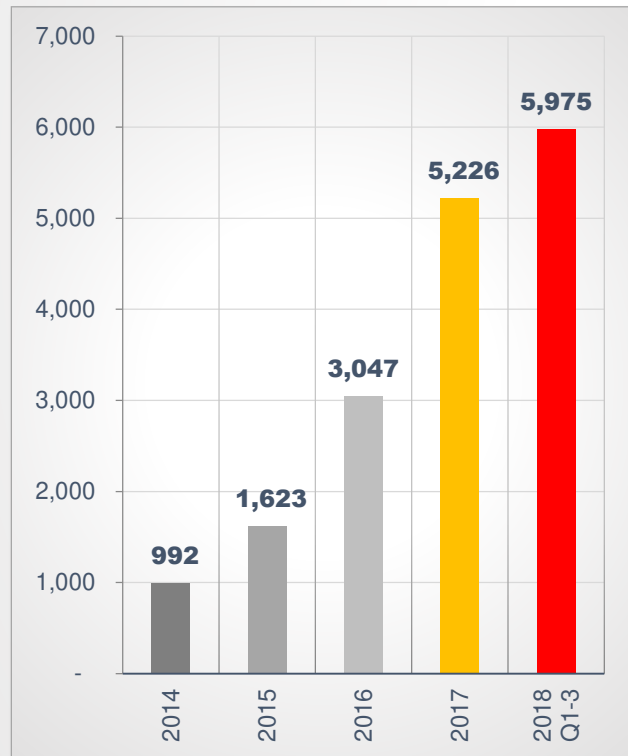


Mono PERC Half-Cut All-Black
Half-cut All Black with highest energy output

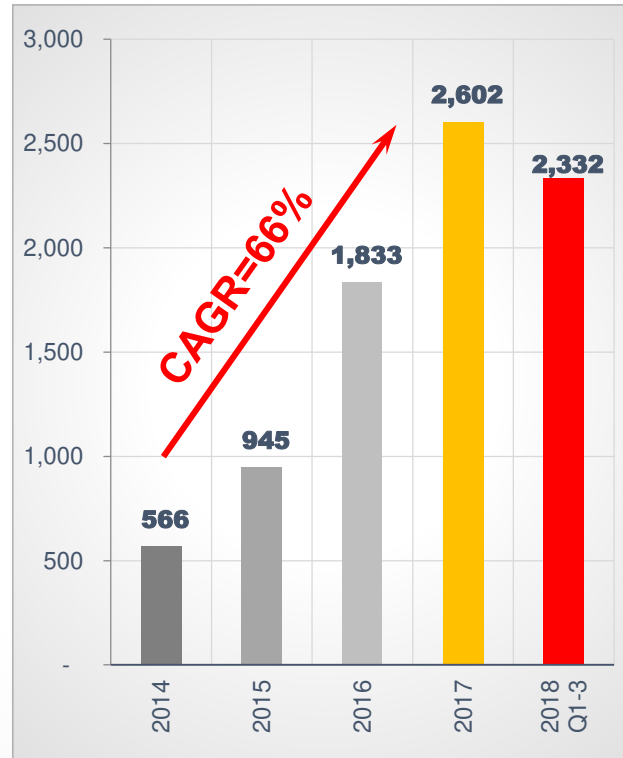
Strong Financial Performance

Market Cap ~**US\$7B** (2018Q3)

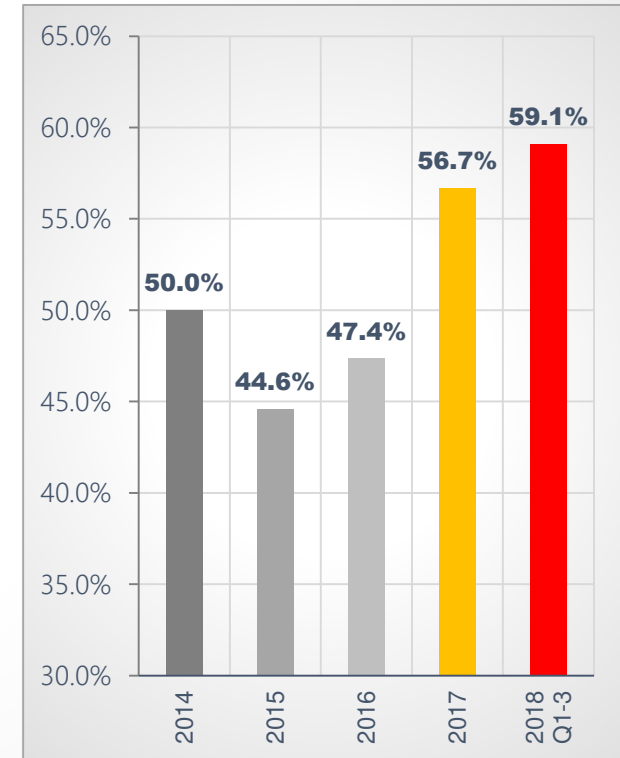
Total assets (Million USD)



Revenue (Million USD)



Debt Ratio

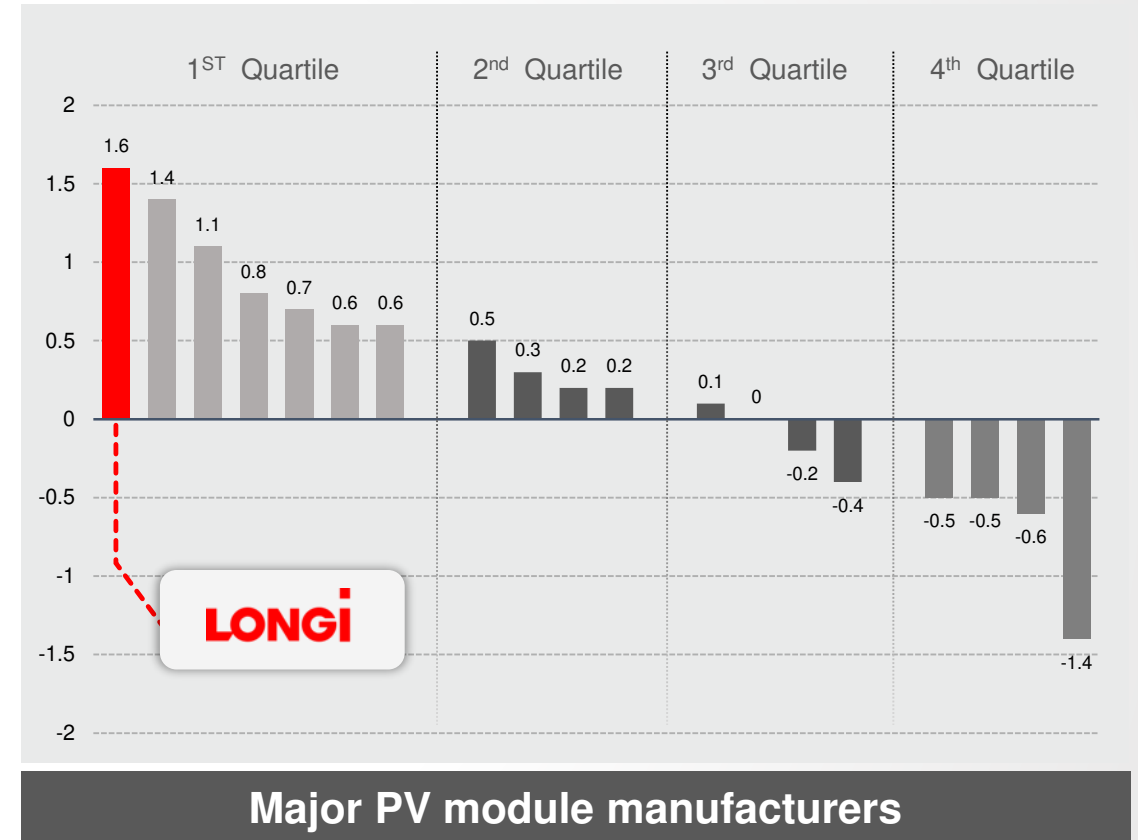


Financial Health

Financial Health **No. 1** among all PV Manufacturers

Strong financial performance
recognized by industry:

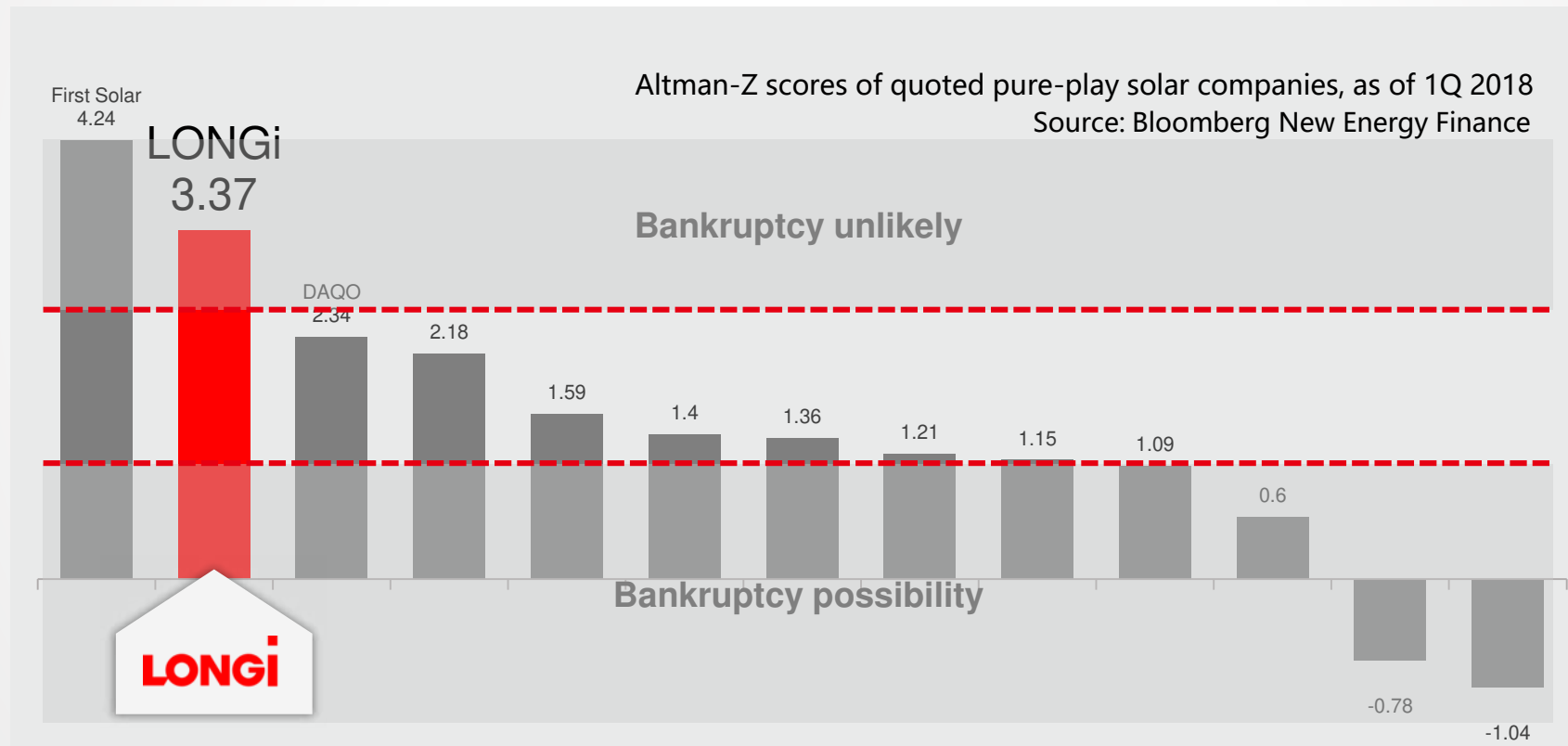
- Financial health **No.1**
- Profitability and cost leadership **top 3**
- Overall score **top 5**



Financial Health

LONGi has been consistently ranked top for financial health among all PV manufacturers by BNEF

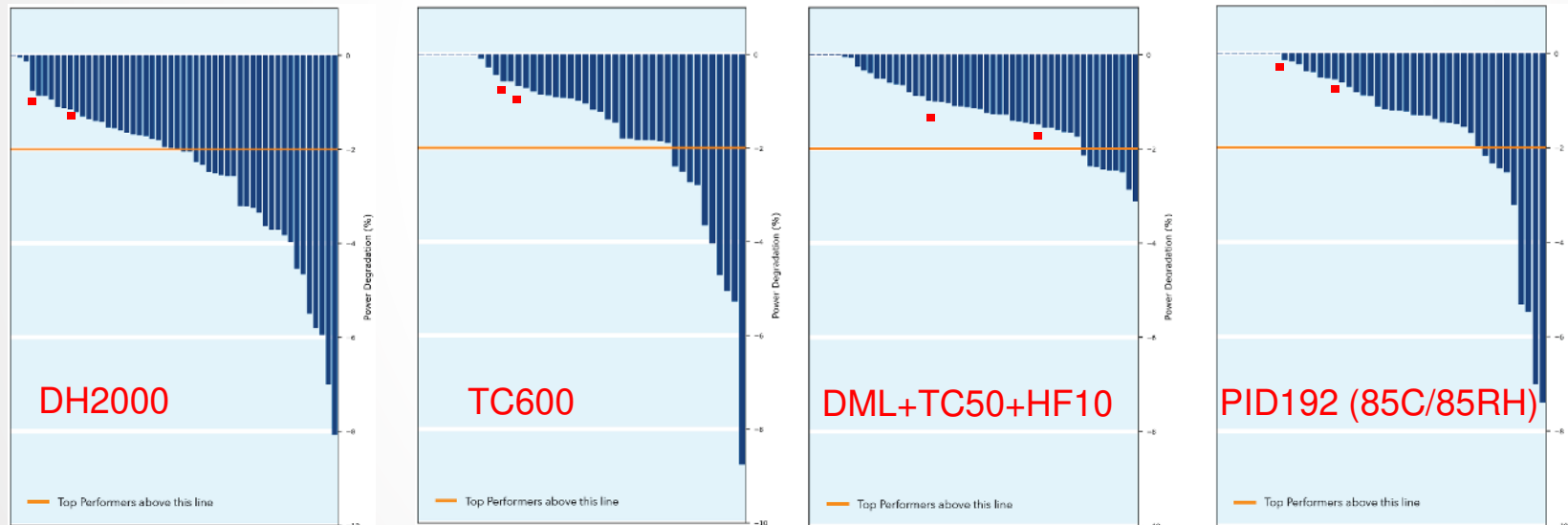
Bloomberg Altman-Z score of PV manufacturers



Financial health
is best warranty from PV
manufacturers

What About Quality?

DNV-GL's "PV Module Reliability Scorecard Report 2017" is a demanding set of tests that reveal the quality of panels by simulating long-term performance over their lifetime.

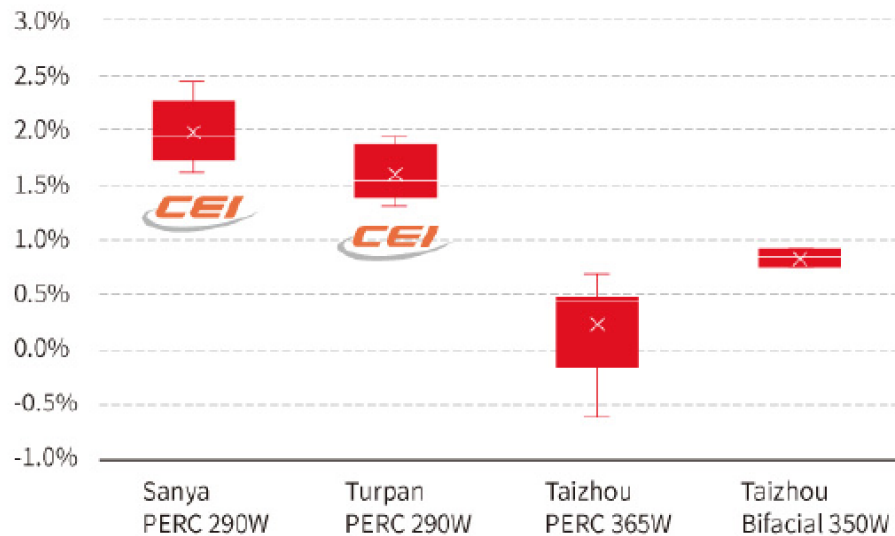


LONGi Solar modules are among **Top Performers** for **All** extended reliability tests

Low degradation-monofacial modules

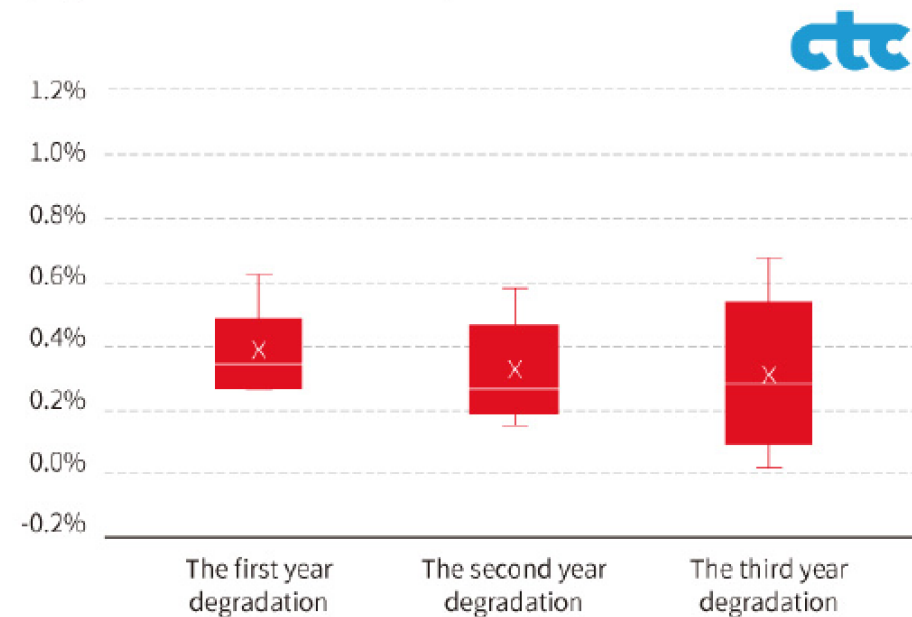
- The low degradation property of LONGi's module is demonstrated by long-term outdoor test

1ST YEAR DEGRADATION IN DIFFERENT CITY IN CHINA

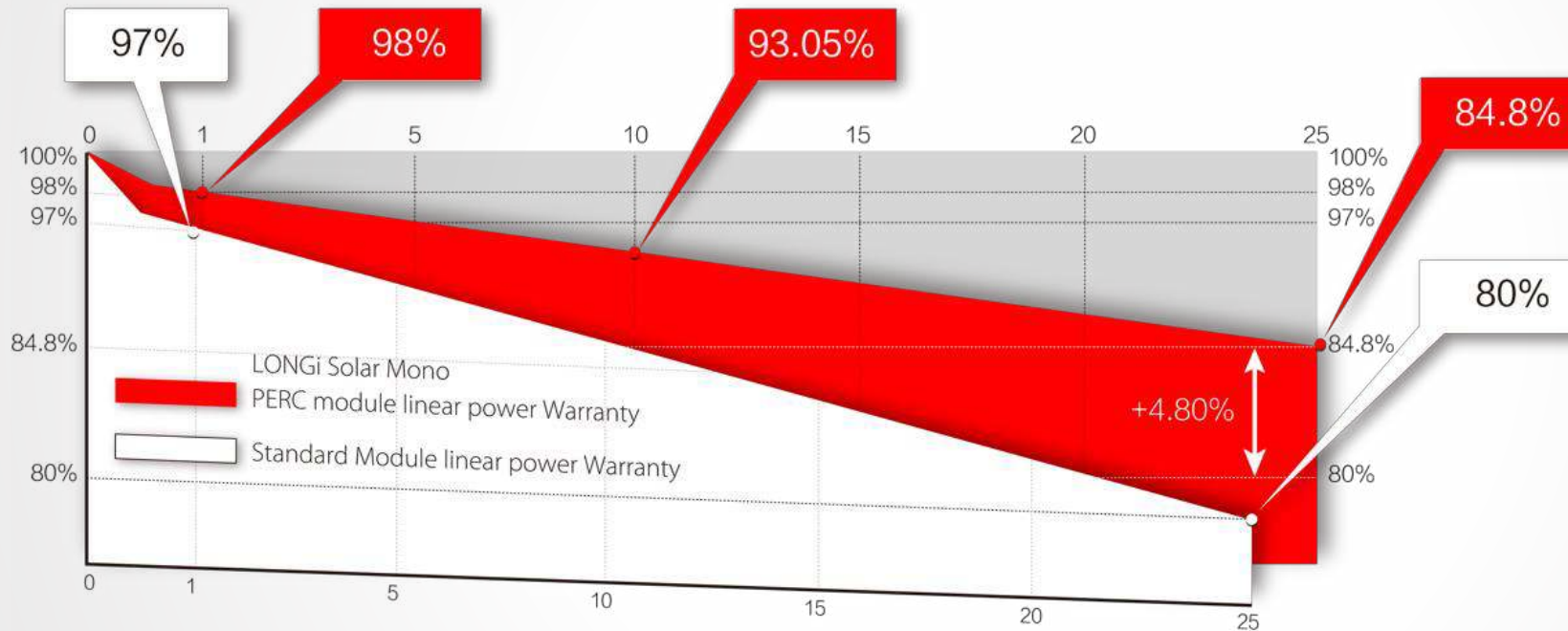


LONGi SOLAR MODULE TESTED BY CTC

(Ding'an Hainan Province 2015~2018)



What About Warranty?



WARRANTY

10Y

MATERIAL & CRAFTWORK

10Y

**POWER-OUTPUT
> 93.05%**

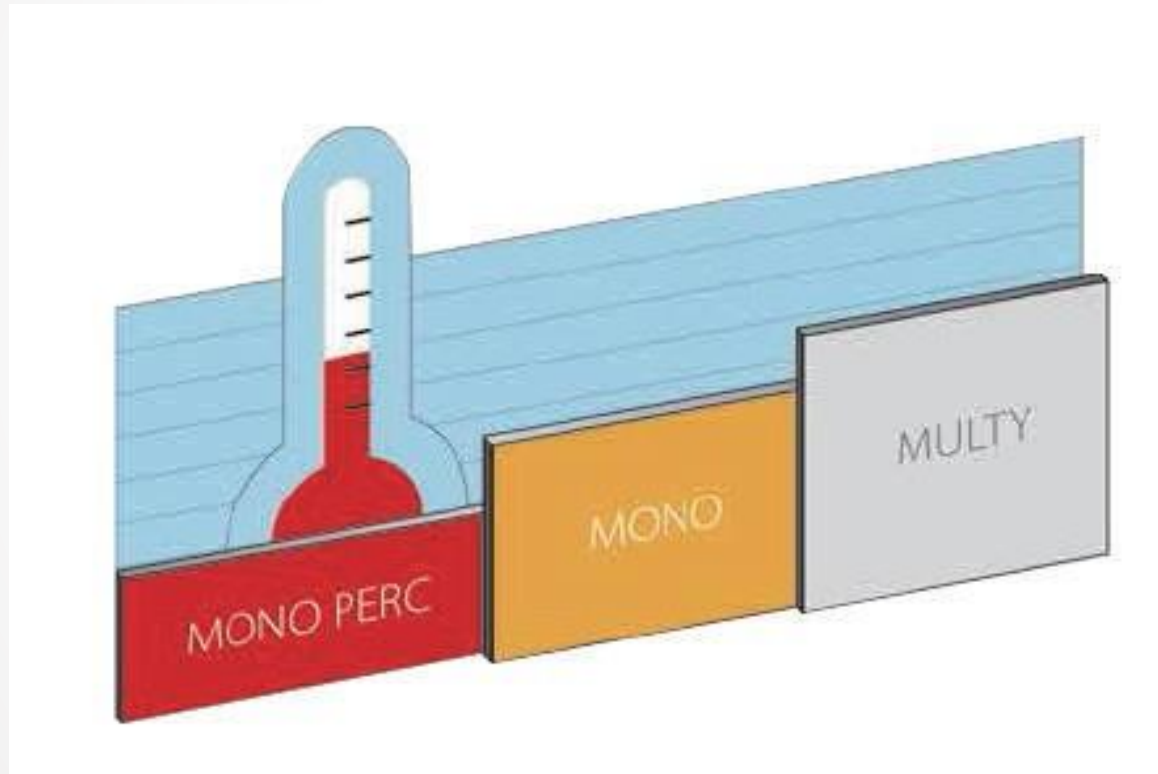
25Y

**POWER-OUTPUT
> 84.80%**

LONGi Solar product family also includes our premium double-glass C-SI mono PERC panels rated up to 310Wp, with a 30-year power performance warranty – that guarantees 20% more energy in the modules lifetime.

Perform in the Summer Heat?

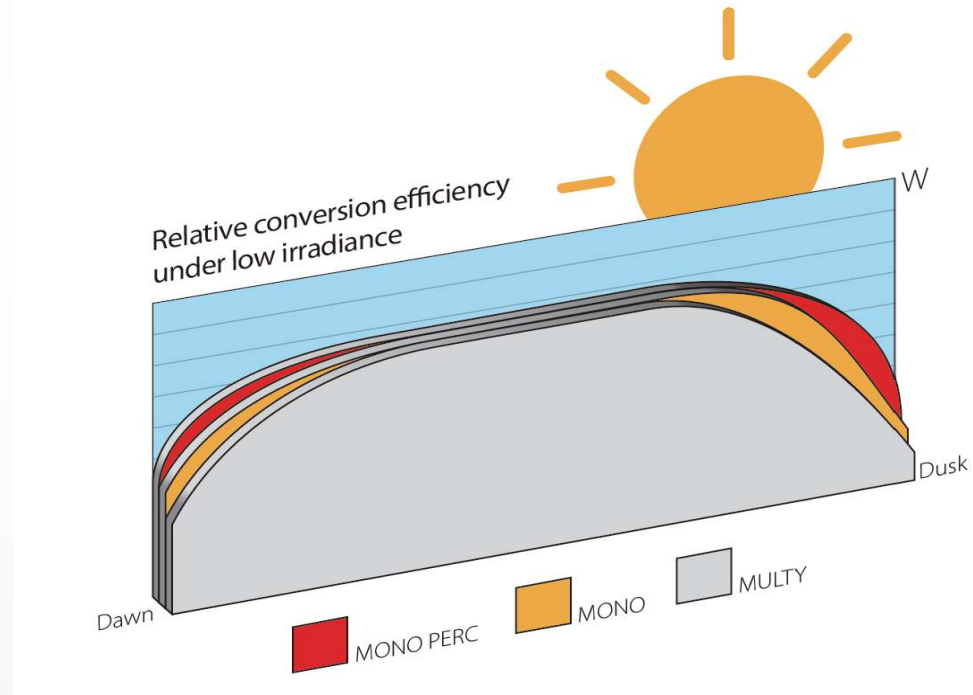
The power a PV panel produces is rated at Standard Test Conditions (STC) at 25-degrees Celsius. When the operating temperature rises above this, modules produce less power.



LONGi Solar panels use C-Si mono-PERC, which have a superior temperature co-efficient, meaning LONGi Solar generates more power in hot climates.

Perform in Winter Less Sunlight?

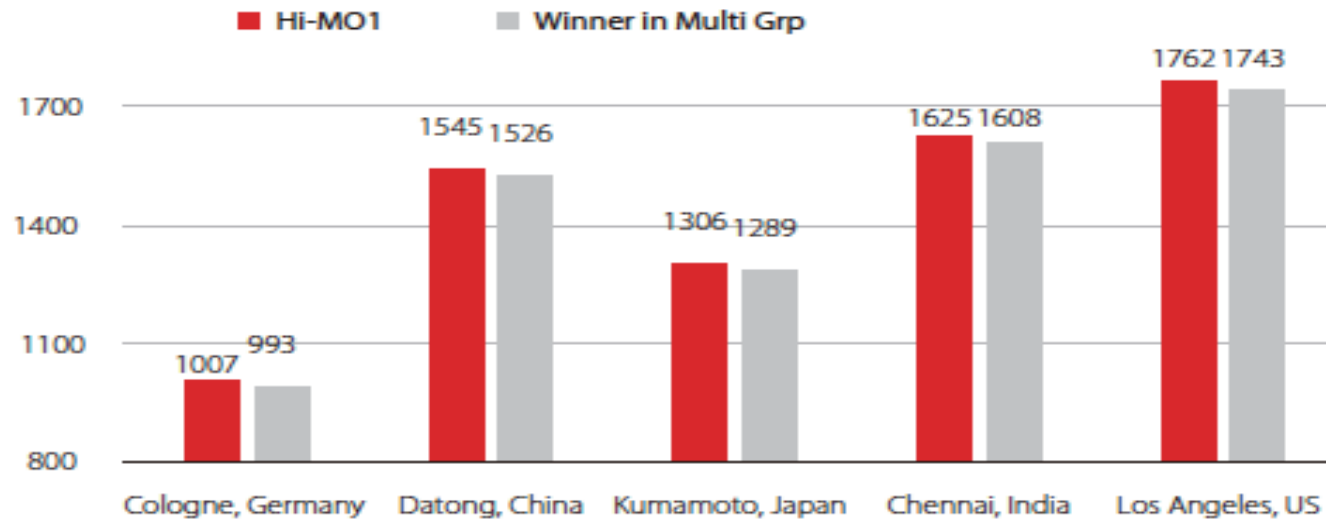
Mono C-Si modules have better low irradiance performance and higher efficiency in the infrared wavelength than Multi C-Si. This simply means more energy produced in low sunlight condition



Mono C-Si modules have lower power loss in low irradiance environments

Power Generation

Simulated Power Generation (kWh/kWp/year)



PAN files generated by TUV Rheinland with randomly selected modules samples from production shipment

Simulated energy yield in five different cities globally

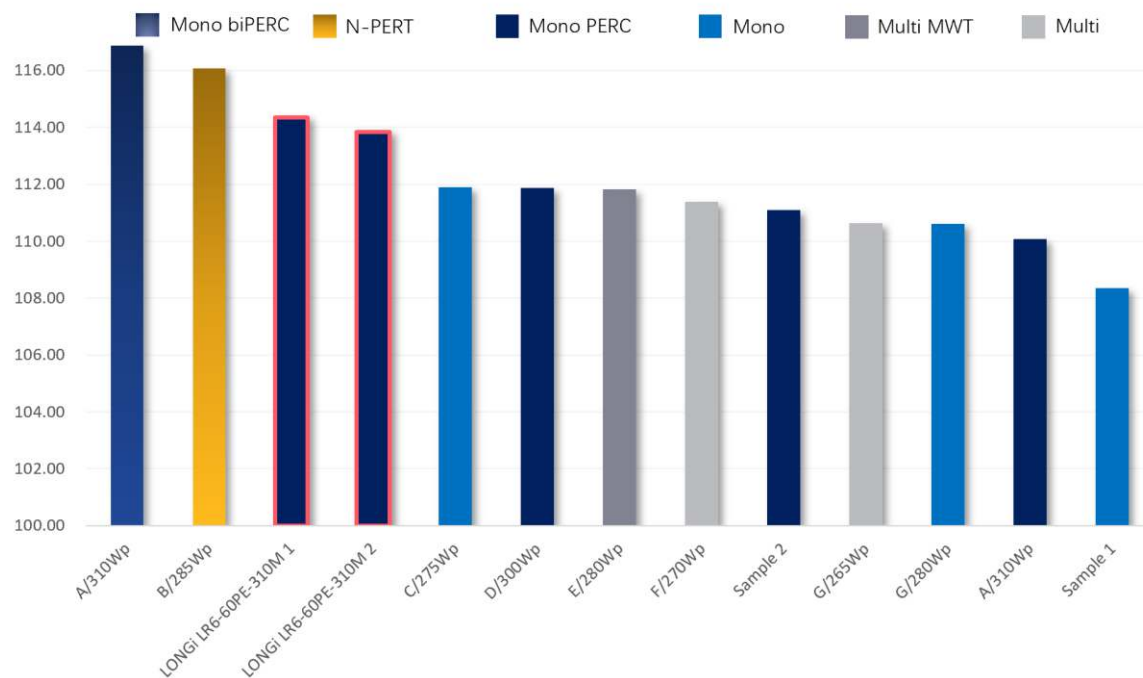
For 2 consecutive years, LONGi Solar has received the "All Quality Matters" award by TÜV Rheinland in their PV Module Energy Yield Simulation." The TÜV tests looked at five simulated conditions from around the world.

Performance of LONGi's PERC modules

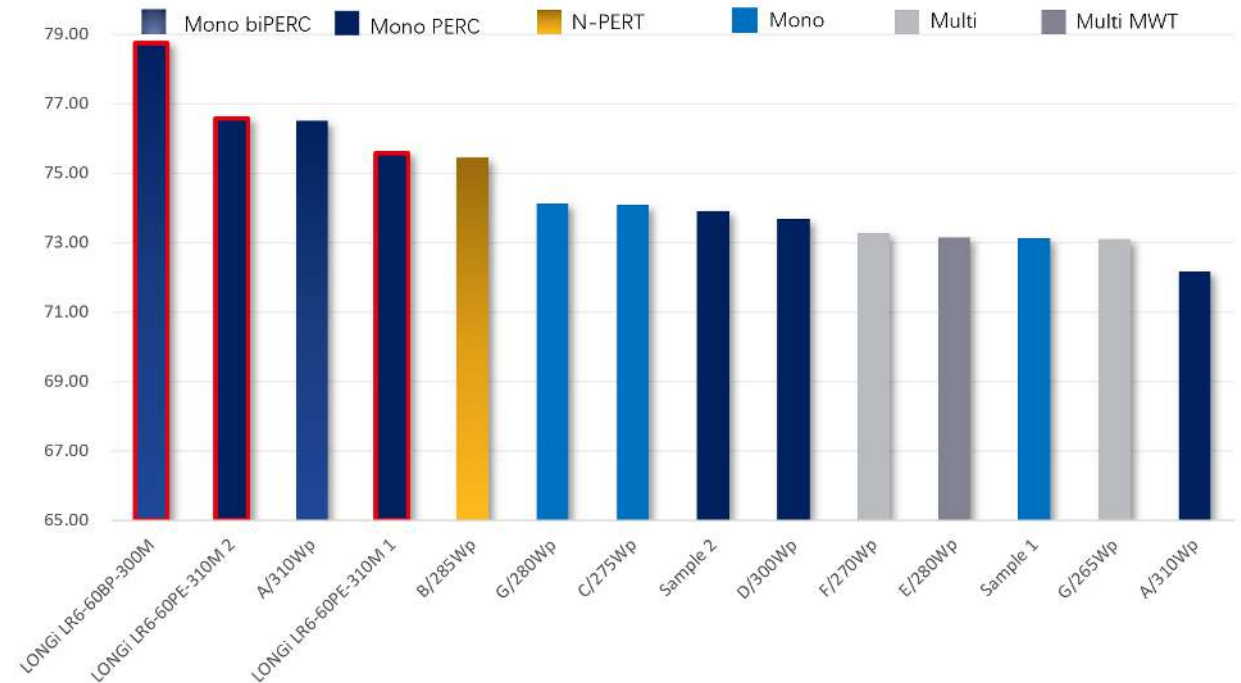


- Among the modules that participated in the 'PV magazine test', LONGi's power generation was significantly ahead of other products

Monthly average power generation of 2018 6~11 (Wh/Wp)

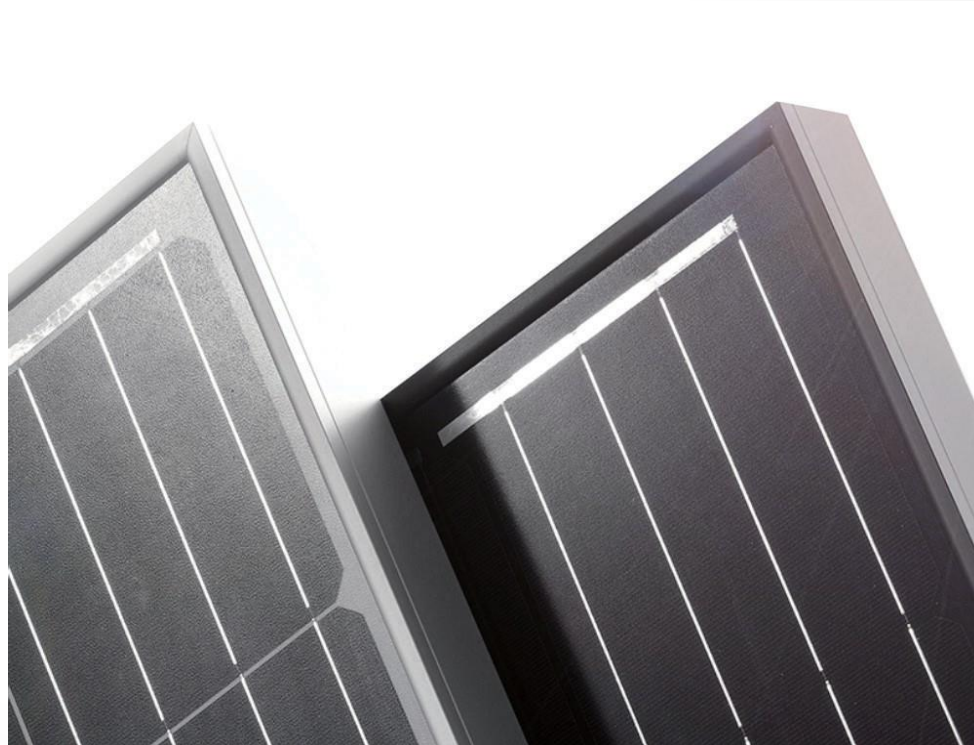


Power generation of 2018.11 (Wh/Wp)



Looking Good

Last but not least, mono C-Si solar cells are black, which matches with black backsheet/frame. This gives your rooftop a sleek, curbside appealing appearance. Anti-reflection glass coating provides more energy with little reflection.



Utilizing Solar Energy, Building a Green World

THINK LONG TERM

As a long term investment, it is worthwhile to do some homework. LONGi Solar has superior innovations in mono C-Si technology and strong financial strength. The products are built to exacting quality and reliability standards, allowing high energy yields which maximize power production in limited roofspace. Always look at your warranty terms, and consider local support. And of course, look for validation reports by unbiased, independent 3rd parties.

CONTACT US

LONGi Solar has appointed distributors and qualified installers in almost all countries. They are experts in solar and will be able help you plan and build the right system for your home.

www.en-longisolar.com

RELIABILITY CREATES VALUE

As certain as the sunrise

World's No. 1 monocrystalline module manufacturer • Solar's most bankable company • PV industry highest R&D investments • High power, high yield, high reliability

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***Thank You
for Your Attention***

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