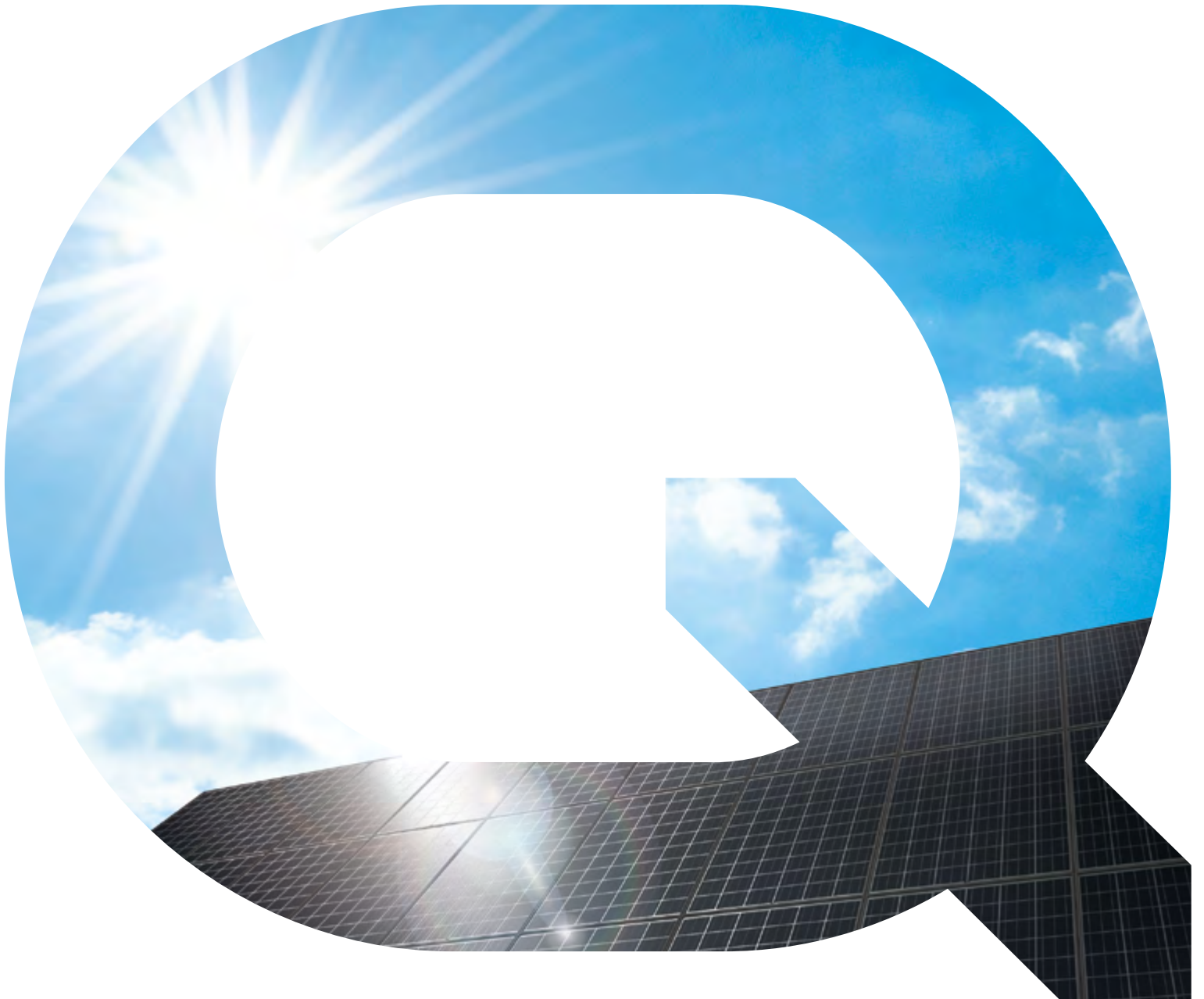


HIGH EFFICIENCY? OUTSTANDING RELIABILITY & DESIGN?

# HAVE THEM ALL WITH Q.ANTUM



**PROFIT FROM Q CELLS INNOVATIVE Q.ANTUM TECHNOLOGY TODAY!**

A brand of Hanwha Q CELLS

**Q CELLS**  
Engineered in Germany

# THE BEST THING UNDER THE SUN.



powered by

## DON'T TRUST US. TRUST THEM. INDEPENDENT TESTS. OUTSTANDING RESULTS.

Many manufacturers promise **excellence** but only Q CELLS can **guarantee** it. In addition to its own extremely strict quality criteria, in collaboration with independent test institutes such as the **VDE** or **Fraunhofer Institute**, Q CELLS has developed several test procedures that more accurately reflect **everyday demands**. These tests are far **more challenging** to pass than international standards such as the **IEC**.

All Q.ANTUM products such as the Q.PLUS BFR-G4 undergo these tests to deliver long-term optimal results in **all weather conditions**. In fact, the Q.PLUS BFR-G4 has been certified with a wind load up to 4000 Pa and a snow load of 5000 Pa – for **maximum reliability** anywhere in the world.

In addition, Q CELLS is the only manufacturer worldwide to offer a **12-year product warranty** including an **Anti PID** and **Anti Hot-Spot** warranty; as well as a guarantee of a maximum linear power loss of only 0.6% per year – for **25 years!**

The commitment was worth it: the prestigious Photon magazine named a Q CELLS product the best **polycrystalline solar module** of 2013 and 2014 – An achievement we aim to repeat.



VDE Quality Tested

Best polycrystalline solar module 2013

Best polycrystalline solar module 2014

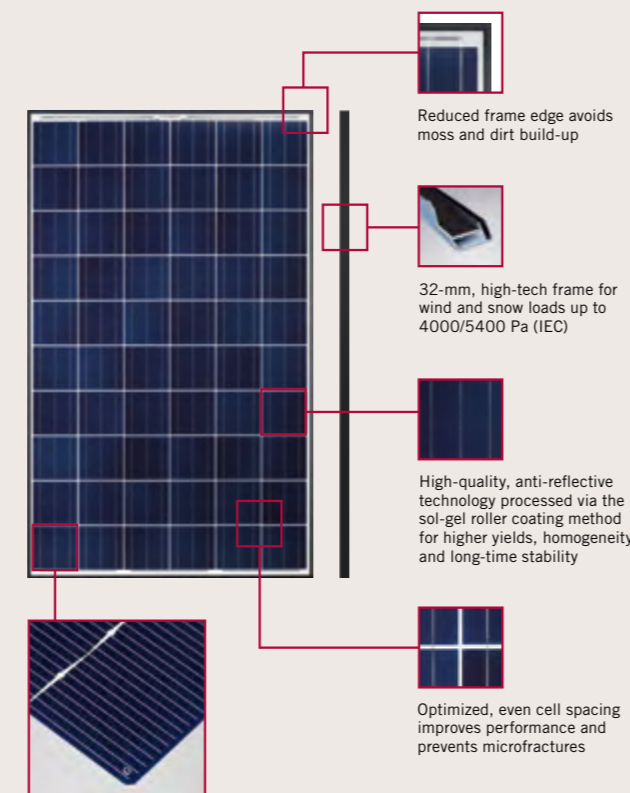
# ANOTHER PLUS FOR YOU. THE NEW Q.PLUS BFR-G4 MODULES HAVE ARRIVED.

All the advantages of Q.ANTUM can be found in the new Q.PLUS BFR-G4 modules from Q CELLS. They combine an exclusive black design with a higher yield per unit area which utilizes higher power ratings to reach outstanding efficiency levels of up to 17.1%. Thanks to Q.ANTUM Technology, the modules deliver peak results in all weather conditions

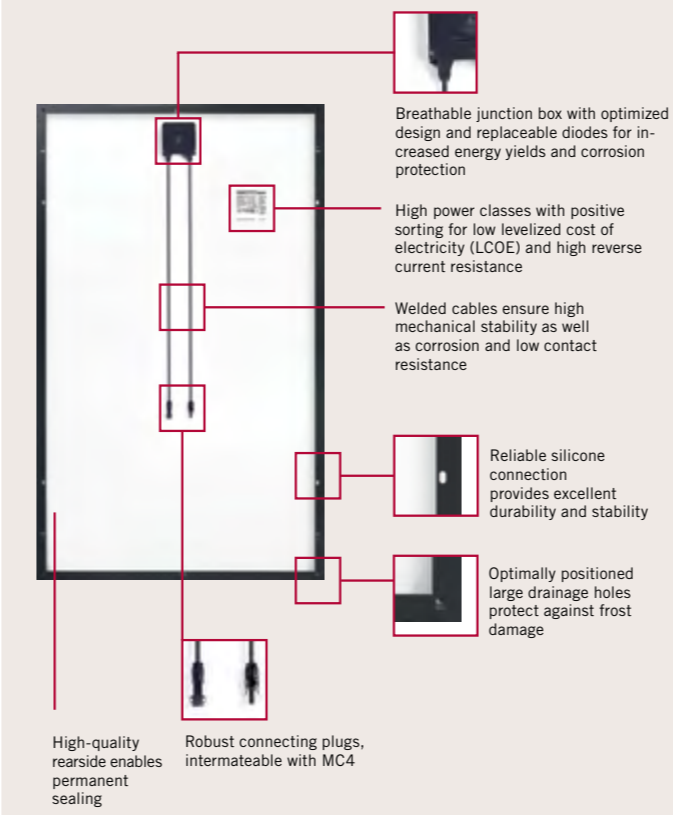
and excel in both low irradiation and high temperatures. A new lightweight, high-tech frame ensures lower logistical costs and provides optimum security for high wind and snow loads. In fact, our frames effortlessly handle higher snow loads than any other panel on the market and are ready to withstand the toughest conditions – worldwide.

## ALL YOU NEED IS Q.ANTUM. DISCOVER OUR REVOLUTIONARY Q.ANTUM TECHNOLOGY.

What is really most important to you? Maximum efficiency with a low LCOE for you and your customers? Or perhaps outstanding reliability and groundbreaking design? With Q CELLS innovative Q.ANTUM Technology you no longer have to compromise! Q.ANTUM brings together all the advantages of Q CELLS cutting edge photovoltaic technologies in an outstanding package that consistently delivers optimum performance levels. Not just in any test setting with prototype modules but in real conditions with modules that are already in batch production. So, if you always want the best of the best, the truth is you only need Q.ANTUM.



- Q CELLS yield security**
- Anti PID Technology (APT) against power loss through potential induced degradation
  - Hot-Spot Protect defends against module fires
  - Tra.Q™ laser identification for added protection against counterfeiting

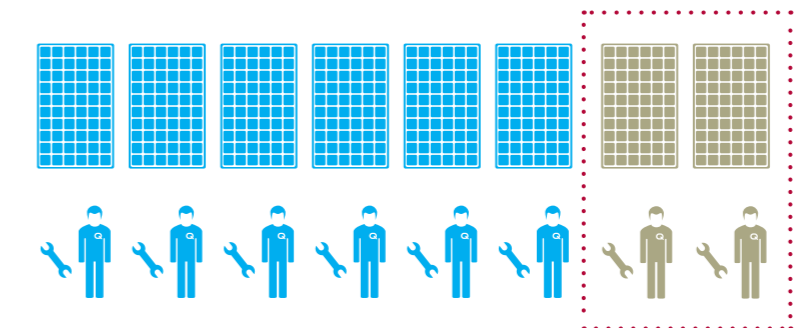


# ONE MODULE. ALL THE ADVANTAGES. BENEFIT FROM THE NEW Q.PLUS BFR-G4 MODULES.

- Q.ANTUM TECHNOLOGY: LOW LEVELIZED COST OF ELECTRICITY**  
Higher yield per surface area, lower BOS costs, higher power classes, and an efficiency rate of up to 17.1%.
- INNOVATIVE ALL-WEATHER TECHNOLOGY**  
Optimal yields, whatever the weather, with excellent low-light and temperature behavior.
- CONSISTENT HIGH PERFORMANCE**  
Long-term yield security with Anti PID Technology, Hot-Spot Protect, and Traceable Quality Tra.Q.
- LIGHT-WEIGHT QUALITY FRAME**  
High-tech aluminium alloy frame, certified for high snow (5400 Pa) and wind loads (4000 Pa).

- MAXIMUM COST REDUCTIONS**  
Up to 10% lower logistics costs due to higher module capacities per box.
- SAFE ELECTRONICS**  
Protection against short circuits and thermally induced power losses due to breathable junction box and welded cables.
- A RELIABLE INVESTMENT**  
Complete 12-year product warranty and 25-year linear warranty included.

## SAVE MORE WITH LOWER BOS COSTS



# THINGS ARE LOOKING GOOD FOR YOU. IMPRESS YOUR CUSTOMERS WITH OUR NEW Q.PLUS BFR-G4 MODULES.



With the Q.PLUS BFR-G4 module it's not just the numbers that look impressive but also the modules themselves. The cells and frames shine together in style, matching even the

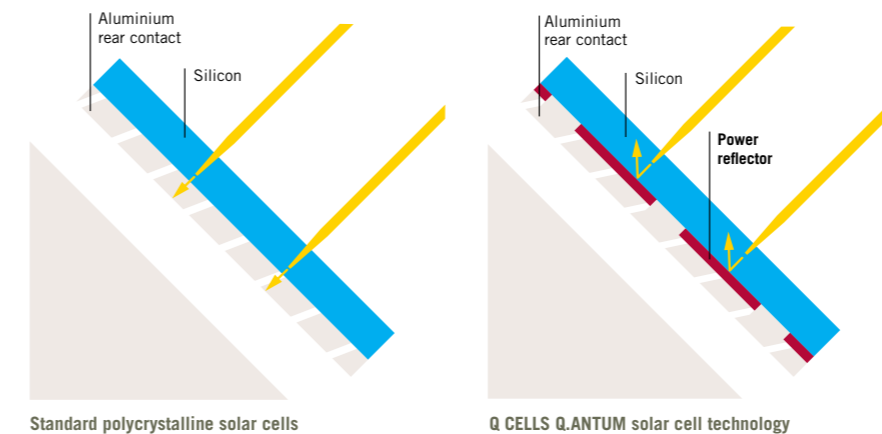
highest architectural standards of modern elegance and design. Ideal for use in the challenging residential sector.

**IT'S OFFICIAL.**  
**Q CELLS GUARANTEES AND AWARDS.**



## DOUBLE THE BENEFIT FROM EVERY RAY OF SUN. HOW Q.ANTUM WORKS.

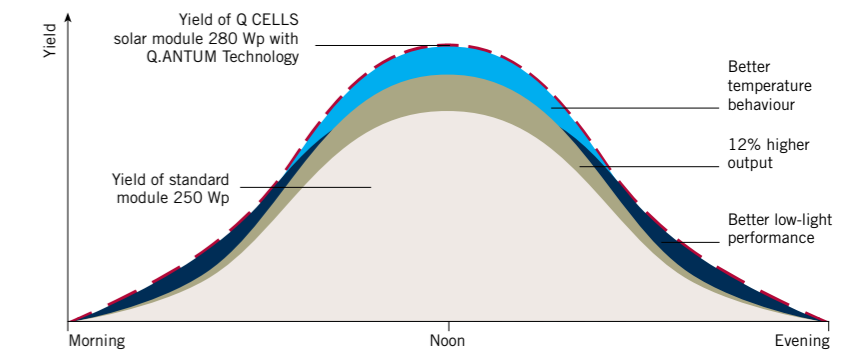
The idea behind Q.ANTUM is pretty simple: Why use every ray of sun only once if you can use it twice? The rear-side of every Q.ANTUM module is coated with a nanolayer, which reflects every ray upwards allowing it to be recycled. Q.ANTUM is also fully compatible with all types of solar cells, making it ideal for all applications from roof-mounted installations to flat roof systems, and even utility-scale solar facilities.



## FOUR LETTERS THAT MEAN THE WORLD. WHY LCOE IS IMPORTANT FOR YOU.

LCOE stands for "levelized cost of electricity" and refers to the actual cost of generating electricity. What is unique is that LCOE takes into account all the costs that are often overlooked. Naturally, higher performance and output have a positive effect on the LCOE. Low installation costs help keep the figure low, while outages caused by PID or hotspots for example, increase it. The bottom line is: LCOE is what counts for your customers. This is precisely where Q.ANTUM proves its strengths with outstanding performance values, low installation costs, and a comprehensive long-term warranty. Q.ANTUM: the perfect overall package to ensure competitively low LCOE.

## THERE'S MORE IN IT FOR YOU. THE ADVANTAGES OF Q.ANTUM.



- HIGHER POWER CLASSES**  
Thanks to Q.ANTUM technology, Q CELLS solar modules offer more power per area, resulting in higher yields at lower BOS costs.
- TEMPERATURE COEFFICIENT**  
Even on hot days, Q CELLS solar modules produce reliable yields and lose less efficiency than standard solar modules.
- LOW-LIGHT BEHAVIOR**  
High yields with low radiation intensity - for example, during sunrise and sunset, on cloudy days, and also in autumn and winter when the sun is flat over the horizon.
- OPTIMAL PERFORMANCE IN REAL CONDITIONS**  
Q.ANTUM delivers the highest performance where it matters most: in everyday life. Specifically, 365 days a year, come rain or shine.

**SIMPLY PUT:**  
**LOW LCOE, HIGH SATISFACTION**

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