PEAK POWER
AND PERFORMANCE

Q.PEAK-G4.1 AND Q.PEAK BLK-G4.1
The Q CELL brand has once again set the standard in performance and value. Backed by the quality and technology leadership of Hanwha Q CELLS, the new Q.PEAK-G4.1 is a monocrystalline module with power classes of up to 305 Wp and efficiencies as high as 18.6%.

Q.PEAK-G4.1 modules offer higher yields from smaller spaces. Q.ANTUM is the next-generation Q CELLS module architecture that makes it possible. Q.ANTUM ensures your cells achieve and maintain outstanding performance levels — from day one, and for the life of the product.

Proprietary Q CELLS Anti LID Technology practically eliminates Light-Induced Degradation (LID), which can drain system performance over time. When conventional monocrystalline cells are exposed to sunlight, they lose much power. Not so with Q.PEAK-G4.1 and Q.ANTUM Anti LID Technology.

Q.PEAK-G4.1 modules also set new aesthetic standards with their black cells and frames. The all-black Q.PEAK BLK-G4.1 goes one step further, incorporating a black backsheet as well for a stunning appearance that’s sure to complement even the most exclusive residence.
What makes Q.PEAK a leading performer in the residential segment? Premium quality combined with outstanding performance and value for the money are certainly at the top of the list.

The many technological advances built into the Q.PEAK-G4.1 draw an even more compelling picture:

- **Anti LID Technology** reduces performance degradation to just 2% after year one and a mere 0.6% each year after that for an outstanding 83.6% performance level in year 25.
- **Elegant black frame, black cells, and all-black BLK-model (Q.PEAK BLK-G4.1)**
- You need fewer modules for the same yield.
- **Over the long 25-year life of the product, extremely low Levelised Cost of Electricity (LCOE)**
- **Anti PID Technology** (Potential-Induced Degradation) and Hot-Spot Protect.
- Outstanding low-light performance for higher morning and evening yields.
- **Engineered in Germany**

### Q.ANTUM ANTI LID vs. CONVENTIONAL MONOCRYSTALLINE CELLS

Conventional monocrystalline cells can exhibit as much as 8% Light-Induced Degradation (LID) in year one. Thanks to Q.ANTUM Anti LID Technology, Q.PEAK modules provide superior performance after the first year, and every year after, too. That’s a promise Q CELLS puts in writing with its extended product guarantee.

### YIELD IN 25 YEARS

<table>
<thead>
<tr>
<th>Effortlessness</th>
<th>25 years</th>
</tr>
</thead>
<tbody>
<tr>
<td>Without Anti LID</td>
<td>92%</td>
</tr>
<tr>
<td>With Anti LID</td>
<td>100%</td>
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</tbody>
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### Q.PEAK-G4.1
- Power classes: 290-305 Wp
- Black frame and cells
- Efficiencies of up to 18.6%

### Q.PEAK BLK-G4.1
- Power classes: 285-295 Wp
- Black frame, cells, and backsheet
- Efficiencies of up to 18.0%
Q.ANTUM technology has a history of breaking efficiency records. It is the perfection of advanced engineering for polycrystalline modules that has now been transferred to the monocrystalline Q.PEAK-G4.1 for high power classes and outstanding yields.

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Q.ANTUM is an accomplishment achieved through a sophisticated balance of the overall cell architecture and advances such as:

- Rear-side passivation using a functional nanolayer power reflector
- Proprietary deactivation process to minimise Light-induced Degradation (LID) on cell level
- A successful mass production process
- Hanwha Q CELLS’ experience and expertise as the largest manufacturer of solar cells worldwide

The result is an extremely efficient module that maintains its remarkably high performance over a 25-year lifespan (83.6% performance guaranteed in year 25).

Since Q.PEAK-G4.1 also delivers high outputs from day one, residential customers can install a smaller system or get more power from a given area. That lowers per-watt installation and Balance-of-System Costs for a significantly lower Levelised Cost of Electricity (LCOE) over the life of the system.

**HIGHER POWER CLASSES**

Thanks to Q.ANTUM technology, Q CELLS solar modules produce more power in a given area, resulting in higher yields at lower BOS costs.

**UNPARALLELED DESIGN**

Black is beautiful, and solar panels don’t have to miss out. The new Q.ANTUM modules look impressive in an elegant black and allow for cheaper logistics because of their particularly slender high-tech frames.

**OPTIMAL PERFORMANCE IN REAL CONDITIONS**

Q.ANTUM maximises real-world yields. In low light, under extreme temperatures, day-in, and day-out.

**ANTI LID TECHNOLOGY MAINTAINS PERFORMANCE**

Other monocrystalline cells can lose as much as 8% of their performance in the first year alone. Not with Q CELLS’ Anti LID Technology.

Biathlon gold medalist Kati Wilhelm trusts Q CELLS products and installed a Q.PEAK system on the roof of her home in 2014.