

Q.FLAT-G4 FOR QUICK-INSTALLATION ON THE ROOF

PHOTOVOLTAIC SYSTEM SOLUTION FOR INDUSTRIAL ROOFS



Q.FLAT-G4

MORE THAN JUST AN ASSEMBLY SYSTEM

Q.FLAT-G4 IS MORE THAN JUST A SUBSTRUCTURE FOR FLAT ROOFS: IT FORMS THE BASIS FOR AN ENTIRE SYSTEM SOLUTION FROM A SINGLE SOURCE.

The large roofs on industrial and commercial buildings, usually less prone to shadowing, are the ideal location for a solar system. Enabling your customers to produce their own electricity allows them to gain autonomy over rising electricity prices. A pioneering and highly functional system solution is needed for this. The Q.FLAT system connects all components for a simple and smooth assembly of the rooftop array.



You want everything from a single source – while resting assured that the components coordinated to one another interact perfectly, and counting on the service of your partners? Q CELLS offers you:

JUST FOUR SIMPLE STEPS FOR YOUR SOLAR SYSTEM TO BE READY



Step 1

- Module assignment plan
- Module interconnection
- Inverter design
- Cable plan
- Ballasting plan



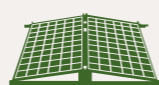
Step 2

- Statics report with consideration of wind and snow loads
- Profitability calculation
- Parts list



Step 3

- Q CELLS supplies all components on time directly to the construction site



Step 4

- Installation of the Q.FLAT-G4 system including module cabling and inverters

Q.FLAT-G4

THE SIMPLE AND RELIABLE SYSTEM FOR FLAT ROOFS

THE CONVENIENT SLIDE-IN SYSTEM ALLOWS RAPID INSTALLATION IN VERY FEW WORK STEPS. THAT SAVES YOU TIME AND MONEY.



QUICKLY INSTALLATION VIA 1-2-3 ASSEMBLY

The modules only have to slide into the central support column – there is no need for additional and awkward clamping above the module.

INSTALLATION WITHOUT SPECIAL TOOLS

All screws are standard models, which means no special tools are required.

QUICK AND CONVENIENT CABLING

When the modules slide in and angled, there is enough free space to carry out the cabling conveniently.

LESS MEASURING WORK

Once aligned, there is no longer any need for measurement. The ballast carriers serve as a distance gauge between the base profiles. As soon as the first base profile is aligned, the distances to the following base profiles result by hanging in the ballast carriers.

KIND TO THE ROOF

The building material is spared thanks to installation without penetration of the roof membrane. The ballast floats above the roof area and prevents damage by the ballast, which means no moss can accumulate below the tiles for example.

LONGEVITY AND ABSENCE OF STRESS

The stability of the base profiles also ensures problem-free installation of the roof even when it is uneven, while mechanical loads on the modules are also reduced.

HIGH YIELDS

The specific yield is improved almost independent of the system's alignment and enables a high level of flexibility in the design of the rooftop array. With a significantly higher power density of over 200Wp/m² compared to standard systems, Q.FLAT is the best solution for high yields.



Q.FLAT-G4

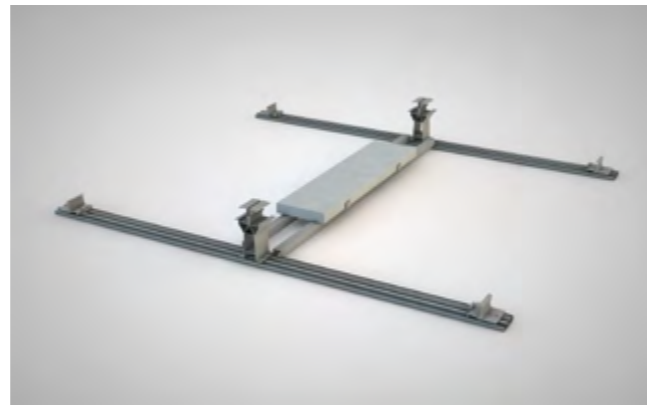
THE 1-2-3 INSTALLATION

Q.FLAT-G4 IS THE PERFECT FLAT ROOF SYSTEM FOR RAPID, SIMPLE AND RELIABLE INSTALLATION WITHOUT ROOF PENETRATION.

THE 1-2-3 INSTALLATION

STEP 1

The substructure is laid out on the roof and the ballast carriers inserted. The central support column and end clamps are preassembled. There is no need for fastening on the roof. That saves building material and reduces the installation costs considerably.



STEP 2

The Q CELLS solar module slides into the guide of the central clamp and is aligned. After this work step, the module cabling can be carried out conveniently.



STEP 3

The solar module is lowered downwards. The end clamps slide onto the modules and are fixed. This one-off assembly design not only minimises the installation time but also reduces the mechanical load on the solar modules; thanks to the floating suspension. Fixing an end clamp means that two adjoining modules are fastened at the same time – a further time saving.



Q CELLS ROOFTOP PLANNER

ONE FOR ALL

THE Q CELLS PLANNING PROGRAMME

ALL-IN-ONE!

The planning tool from Q CELLS combines various programmes and makes planning easier for you. Saves time and resources by implementing all steps of the design in a single programme.

ENTER ADDRESS – START RIGHT AWAY

Simply enter the address of the object to be assigned and the roof will be displayed instantly via Google. After selecting the roof forms, the areas are displayed automatically – these can then be expanded or reduced with just a few clicks. Areas to be left out or, for instance, chimneys can easily be defined and multiplied. Snow and wind load zones are automatically displayed and can also be detailed further.

SELECTING COMPONENTS

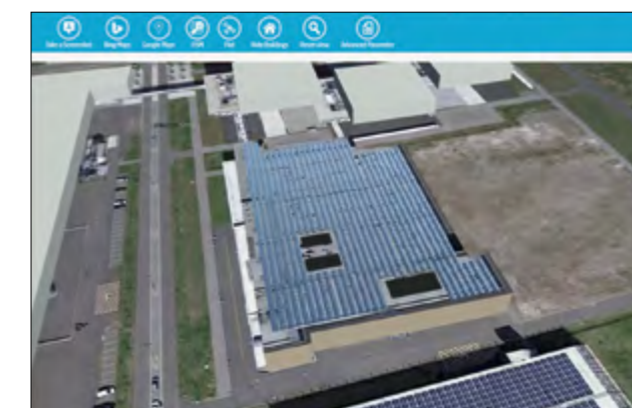
After selecting the modules and substructure, an automatic assignment including shadow simulation and cabling overview is performed automatically. It is possible to modify your planning at any time. The optional display in 3D is a further highlight that is sure to impress your customers. Export your data easily as a CAD file or PDF.

SIMULATION MADE EASY

Once you have selected the inverters or the storage solution, directly start the simulation that you previously had to carry out additionally in the PV-Sys or PV Sol software. The selection of the Meteonorm weather data preselected in the default settings can be changed if required. The local topography such as mountains can easily be considered.

EVERYTHING YOU NEED

At the end, you will receive an overview list of all required materials that you can simply export as an Excel file.



Q CELLS SOLAR MODULES

VERSATILE IN USE

A HIGH QUALITY ENTAILS THAT OUR PRODUCTS WILL HAVE A LONG SERVICE LIFE AND TREMENDOUS TECHNICAL PROPERTIES.

BEST COMPONENTS FOR BEST YIELDS.

Excellent modules together with a unique and intelligent substructure guarantee a high, long-term energy yield.



Q.PLUS

The polycrystalline high-performance module Q.PLUS BFR-G4.1 is the ideal solution for all applications thanks to its innovative cell technology Q.ANTUM. The world record cell design has been developed to achieve the best performance under real conditions – even when solar intensity is low as well as on clear, hot summer days.

Q.PEAK

The new high-performance module Q.PEAK BLK-G4.1 with monocrystalline Q.ANTUM cell technology is the perfect combination of power and aesthetics for your private rooftop array. The world record cell design has been developed to achieve outstanding performance under real conditions – even when solar intensity is low as well as on clear, hot summer days.

HANWHA Q CELLS

A STRONG BRAND

FOR HANWHA Q CELLS, PHOTOVOLTAICS IS MORE THAN JUST A PRODUCT. IT IS THE KEY TECHNOLOGY FOR A RELIABLE AND SUSTAINABLE POWER SUPPLY.

GLOBAL NETWORK, GERMAN QUALITY

Photovoltaics are more than just a product for Hanwha Q CELLS. It is the key technology for a reliable, efficient and sustainable energy supply – today and for future generations. In us, you will have a strong, sustainable partner, for a long-term stable collaboration on your part. We focus all our strength into actively supporting our partners and reinforcing this support with comprehensive services, so that the photovoltaics market can continue to grow.

TOP PV MANUFACTURER

Further proof of our outstanding quality is the Q CELLS product brand being awarded with the 'Top Brand PV Europe 2017' seal by the Bonn-based market research institute EuPD Research. Only a few manufacturers receive this seal every year, and Hanwha Q CELLS have received it for the fourth time in a row for the entire European market. This is proof of the positive assessments we have received from installers, compared to the competition. Our customers can also differentiate themselves with this seal, as they offer Q CELLS as an outstanding quality brand.



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