Q.MAXX-G5+ SERIES

405-415 Wp | 108 Cells
21.3% Maximum Module Efficiency

The ideal solution for:
Rooftop arrays on residential buildings

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A reliable investment
Inclusive 25-year product warranty and 25-year linear performance warranty

Enduring high performance
Long-term yield security with Anti LeTID Technology and Hot-Spot Protect

The most thorough testing programme in the industry
Qcells is the first solar module manufacturer to pass the most comprehensive quality programme in the industry. The new “Quality Controlled PV” of the independent certification institute TÜV Rheinland.

More suitable size for residential installation
With its length less than 1722 mm, Q.MAXX-G5+ provides with easier system designs and installations.

Breaking the 21% efficiency barrier
Q.ANTUM DUO Technology with optimized module layout boosts module power.

Extreme weather rating
High-tech aluminium alloy frame, certified for high snow (8100 Pa) and wind loads (4000 Pa).

Innovative all-weather technology
Optimal yields, whatever the weather with excellent low-light and temperature behaviour.

See data sheet on rear for further information.

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**Q.MAXX-G5+ SERIES**

- **Mechanical Specification**
  - Format: 1722 mm × 1134 mm × 30 mm (including frame)
  - Weight: 211kg
  - Front Cover: 3.2 mm thermally pre-stressed glass with anti-reflection technology
  - Back Cover: Composite film
  - Frame: Black anodised aluminium
  - Cell: 6 × 18 monocrystalline Q.ANTUM solar half cells
  - Junction box: 53-101 mm × 32-60 mm × 15-18 mm Protection class IP67, with bypass diodes
  - Cable: 4 mm² Solar cable; (+) ≥ 1265 mm, (−) ≥ 1265 mm
  - Connector: Stäubli MC4, Hanwha Q CELLS HQC4; IP68

- **Electrical Characteristics**
  - **POWER CLASS**
    - POWER CLASS 405 415
    - MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC¹ (POWER TOLERANCE +5 W / −5 W)
      - Power at MPP³ \( P_{\text{app}} \) [W]
      - Short Circuit Current \( I_{\text{SC}} \) [A]
      - Open Circuit Voltage \( V_{\text{OC}} \) [V]
      - Current at MPP \( I_{\text{MP}} \) [A]
      - Voltage at MPP \( V_{\text{MP}} \) [V]
    - Efficiency \( \eta \) [%] ≥ 20.7 ≥ 21.3
  - MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT²
    - Power at MPP \( P_{\text{app}} \) [W]
    - Short Circuit Current \( I_{\text{SC}} \) [A]
    - Open Circuit Voltage \( V_{\text{OC}} \) [V]
    - Current at MPP \( I_{\text{MP}} \) [A]
    - Voltage at MPP \( V_{\text{MP}} \) [V]
    - Maximum
  - Qcells PERFORMANCE WARRANTY
  - PERFORMANCE AT LOW IRRADIANCE
    - At least 98% of nominal power during first year. Thereafter max. 0.5% degradation per year. At least 93.5% of nominal power up to 10 years. At least 86% of nominal power up to 25 years.
    - All data within measurement tolerances. Full warranties in accordance with the warranty terms of the Qcells sales organisation of your respective country.
    - Temperatures: P_{app} ± 3%, I_{SC}, V_{OC} ± 5% at STC: 1000 W/m², 25 ± 2°C, AM 1.5 according to IEC 60904-3 • ²800 W/m², NMOT, spectrum AM 1.5

- **Properties for System Design**
  - Maximum System Voltage \( V_{\text{sys}} \) [V] 1000
  - Maximum Reverse Current \( I_{r} \) [A] 25
  - Max. Design Load, Push / Pull [Pa] 5400/2665
  - Max. Test Load, Push / Pull [Pa] 800/4000

- **Qualifications and Certificates**
  - This data sheet complies with DIN EN 50380
  - Made in China

Qcells pursues minimizing paper output in consideration of the global environment.

### Packaging Information
- 1764mm × 1130mm × 1270mm
- 797.6kg
- 30 pallets
- 26 pallets
- 36 modules