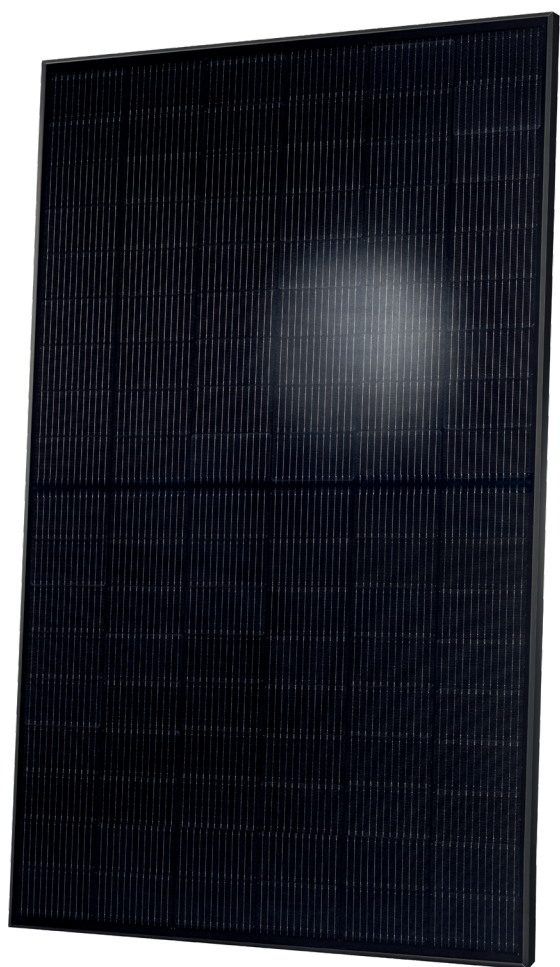


Q.TRON BLK M-G2+ SERIES



420 - 430 Wp | 108 Cells
22.0% Maximum Module Efficiency

MODEL Q.TRON BLK M-G2.4+



Q.ANTUM
NEO

High performance Qcells N-type solar cells

Q.ANTUM NEO solar cell technology with optimized module layout boosts module efficiency up to 22.0%.



A reliable investment

Inclusive 25-year product warranty and 25-year linear performance warranty¹.



Enduring high performance

Long-term yield security with Anti LeTID Technology, Anti PID Technology², Hot-Spot Protect.



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.



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.

¹ See data sheet on rear for further information.

² APT test conditions according to IEC/TS 62804-1:2015, method A (-1500V, 96h)

The ideal solution for:



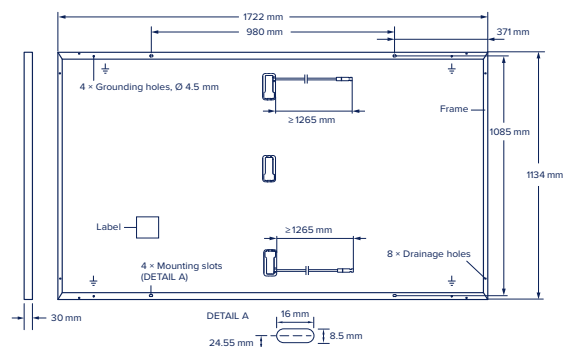
Rooftop arrays on
residential buildings



Q.TRON BLK M-G2+ SERIES

Mechanical Specification

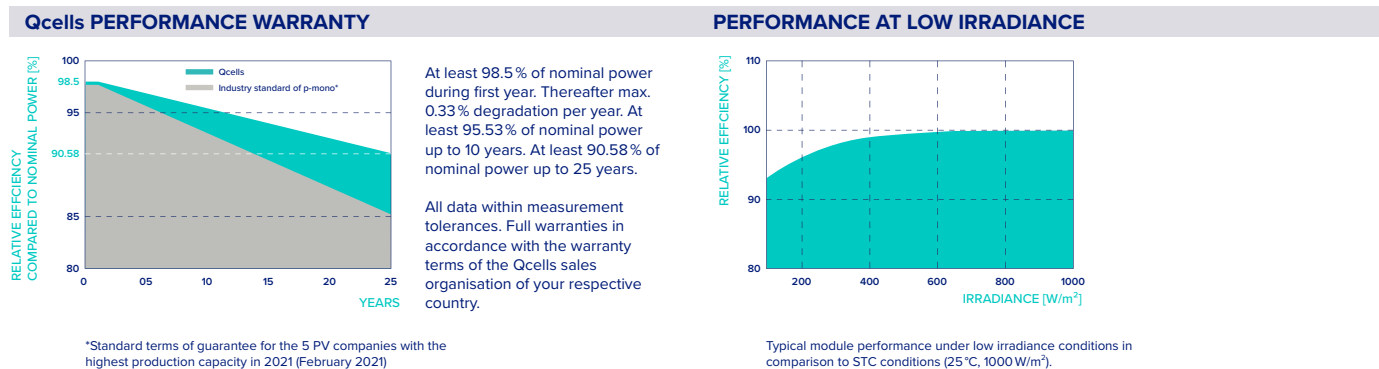
| | |
|--------------|--|
| Format | 1722 mm × 1134 mm × 30 mm (including frame) |
| Weight | 21.2 kg |
| Front Cover | 3.2 mm thermally pre-stressed glass with anti-reflection technology |
| Back Cover | Composite film |
| Frame | Black anodised aluminium |
| Cell | 6 × 18 monocrystalline Q.ANTUM NEO solar half cells |
| Junction box | 53-101 mm × 32-60 mm × 15-18 mm Protection class IP67, with bypass diodes |
| Cable | 4 mm ² Solar cable; (+) ≥1265 mm, (-) ≥1265 mm |
| Connector | Stäubli MC4, Hanwha Q CELLS HQC4; IP68 |



Electrical Characteristics

| POWER CLASS | | | | 420 | 425 | 430 |
|---|------------------------------------|------------------|-----|-------|-------|-------|
| MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC ¹ (POWER TOLERANCE +5 W/-0 W) | | | | | | |
| Minimum | Power at MPP ¹ | P _{MPP} | [W] | 420 | 425 | 430 |
| | Short Circuit Current ¹ | I _{SC} | [A] | 13.58 | 13.66 | 13.74 |
| | Open Circuit Voltage ¹ | V _{OC} | [V] | 38.75 | 39.03 | 39.32 |
| | Current at MPP | I _{MPP} | [A] | 12.91 | 12.98 | 13.05 |
| | Voltage at MPP | V _{MPP} | [V] | 32.54 | 32.74 | 32.94 |
| | Efficiency ¹ | η | [%] | ≥21.5 | ≥21.8 | ≥22.0 |
| MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT ² | | | | | | |
| Minimum | Power at MPP | P _{MPP} | [W] | 317.5 | 321.2 | 325.0 |
| | Short Circuit Current | I _{SC} | [A] | 10.94 | 11.00 | 11.07 |
| | Open Circuit Voltage | V _{OC} | [V] | 36.77 | 37.04 | 37.31 |
| | Current at MPP | I _{MPP} | [A] | 10.15 | 10.21 | 10.27 |
| | Voltage at MPP | V _{MPP} | [V] | 31.26 | 31.46 | 31.65 |

¹Measurement tolerances P_{MPP} ±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



| TEMPERATURE COEFFICIENTS | | | | | | | |
|---|---|-------|-------|--|------|-------|-------|
| Temperature Coefficient of I _{SC} | α | [%/K] | +0.04 | Temperature Coefficient of V _{OC} | β | [%/K] | −0.24 |
| Temperature Coefficient of P _{MPP} | γ | [%/K] | −0.30 | Nominal Module Operating Temperature | NMOT | [°C] | 43±3 |

Properties for System Design

| | | | | | |
|-----------------------------|------------------|------|-----------|---|-----------------|
| Maximum System Voltage | V _{sys} | [V] | 1000 | PV module classification | Class II |
| Maximum Reverse Current | I _R | [A] | 25 | Fire Rating based on ANSI/UL 61730 | C/TYPE 2 |
| Max. Design Load, Push/Pull | | [Pa] | 5400/2660 | Permitted Module Temperature on Continuous Duty | -40 °C - +85 °C |
| Max. Test Load, Push/Pull | | [Pa] | 8100/4000 | | |

Qualifications and Certificates

Quality Controlled PV -
TÜV Rheinland;
IEC 61215:2016;
IEC 61730:2016.
This data sheet complies
with DIN EN 50380.



Made in China

Packaging Information



1764mm



1130mm



1270mm



811.2kg



30 pallets



26 pallets



36 modules



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

Note: Installation instructions must be followed. Contact our technical service for further information on approved installation of this product.

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