BREAKING THE 20 % EFFICIENCY BARRIER
Q.ANTUM DUO Z Technology with zero gap cell layout boosts module efficiency up to 20.6 %.

THE MOST THOROUGH TESTING PROGRAMME IN THE INDUSTRY
Q CELLS 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.

INNOVATIVE ALL-WEATHER TECHNOLOGY
Optimal yields, whatever the weather with excellent low-light and temperature behavior.

ENDURING HIGH PERFORMANCE
Long-term yield security with Anti LID Technology, Anti PID Technology\(^1\), Hot-Spot Protect and Traceable Quality Tra.Q™.

EXTREME WEATHER RATING
High-tech aluminum alloy frame, certified for high snow (6000 Pa) and wind loads (4000 Pa).

A RELIABLE INVESTMENT
Inclusive 25-year product warranty and 25-year linear performance warranty\(^2\).

\(^1\) APT test conditions according to IEC / TS 62804-1:2015, method A (−1500 V, 96 h)
\(^2\) See data sheet on rear for further information.

THE IDEAL SOLUTION FOR:
- Rooftop arrays on residential buildings

Q.CELLS
Engineered in Germany
MECHANICAL SPECIFICATION

Format 72.4 in × 40.6 in × 1.26 in (including frame)
(1840 mm × 1030 mm × 32 mm)

Weight 43.0 lbs (19.5 kg)

Front Cover 0.11 in (2.8 mm) thermally pre-stressed glass with
anti-reflection technology

Back Cover Composite film

Frame Black anodized aluminum

Cell 6 × 22 monocrystalline Q.ANTUM solar half cells

Junction Box 2.09-3.98 in × 1.26-2.36 in × 0.59-0.71 in
(53-101 mm × 32-60 mm × 15-18 mm), IP67, with bypass diodes

Cable 4 mm² Solar cable; (+) ≥ 47.2 in (1200 mm), (−) ≥ 47.2 in (1200 mm)

Connector Stäubli MC4; IP68

ELECTRICAL CHARACTERISTICS

POWER CLASS 365 370 375 380 385

MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC1 (POWER TOLERANCE +5 W / −0 W)

Power at MPP1 P_{MPP} [W] 365 370 375 380 385
Short Circuit Current1 I_{SC} [A] 10.40 10.44 10.47 10.50 10.53
Open Circuit Voltage1 V_{OC} [V] 44.93 44.97 45.01 45.04 45.08
Current at MPP I_{PMP} [A] 9.87 9.92 9.98 10.04 10.10
Voltage at MPP V_{VMP} [V] 36.99 37.28 37.57 37.85 38.13
Efficiency1 η [%] ≥ 19.3 ≥ 19.5 ≥ 19.8 ≥ 20.1 ≥ 20.3

MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT2

Power at MPP P_{MPP} [W] 273.3 277.1 280.8 284.6 288.3
Short Circuit Current I_{SC} [A] 8.38 8.41 8.43 8.46 8.48
Open Circuit Voltage V_{OC} [V] 42.37 42.41 42.44 42.48 42.51
Current at MPP I_{PMP} [A] 7.76 7.81 7.86 7.91 7.96
Voltage at MPP V_{VMP} [V] 35.23 35.48 35.72 37.95 36.20

Q CELLS PERFORMANCE WARRANTY PERFORMANCE AT LOW IRRADIANCE

At least 96% 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 96% of nominal power up to 25 years.

All data within measurement toleranc-
es. Full warranties in accordance with 
the warranty terms of the Q CELLS 
sales organisation of your respective 
country.

TEMPERATURE COEFFICIENTS

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Nominal Module Operating Temperature NMOT [°F] 109 ± 5.4 (43 ± 3 °C)

TEMPERATURE COEFFICIENTS

Maximum System Voltage V_{max} [V] 1000 (IEC)/1000 (UL)

Maximum Series Fuse Rating [A DC] 20

Max. Design Load, Push/Pull2 [lbf/ft²] 84 (4000Pa)/55 (2660Pa)

Max. Test Load, Push/Pull2 [lbf/ft²] 126 (6000Pa)/84 (4000Pa)

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Nominal Module Operating Temperature NMOT [°F] 109 ± 5.4 (43 ± 3 °C)

PROPERTY FOR SYSTEM DESIGN

At least 96% 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 96% of nominal power up to 25 years.

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QUALIFICATIONS AND CERTIFICATES


PACKAGING AND TRANSPORT INFORMATION

Horizontal packaging 74.4 in × 42.6 in × 47.6 in × 145 lbs 28 pallets 24 modules
Vertical packaging 78.6 in × 45.3 in × 46.7 in × 150 lbs 28 pallets 24 modules

Note: Installation instructions must be followed. See the installation and operating manual or contact our technical service department for further information on approved installation and use of this product. Q CELLS supplies solar modules in two different stacking methods, depending on the location of manufacture (modules are packed horizontally or vertically). You can find more detailed information in the document "Packaging and Transport Information", available at Q CELLS.

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