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 Technology¹, 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 12-year product warranty and 25-year linear performance warranty².

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.

Q.PEAK DUO BLK ML-G9
365-385
ENDURING HIGH PERFORMANCE
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 × 40.6 in × 1.26 in (including frame)
(53-101 mm × 1030 mm × 32 mm)
Cable 4 mm² Solar cable; (+) ≥ 47.2 in (1200 mm), (−) ≥ 47.2 in (1200 mm)
Connector Stäubli MCA, Hanwha Q CELLS HGQC4, IP68

ELECTRICAL CHARACTERISTICS

POWER CLASS 365 370 375 380 385
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC (POWER TOLERANCE +5 W / −0 W)
Power at MPP\(^1\) \(P_{\text{MPP}}\) [W] 365 370 375 380 385
Short Circuit Current\(^1\) \(I_{\text{SC}}\) [A] 10.40 10.44 10.47 10.50 10.53
Open Circuit Voltage\(^1\) \(V_{\text{OC}}\) [V] 44.93 44.97 45.01 45.04 45.08
Current at MPP \(I_{\text{MPP}}\) [A] 9.87 9.92 9.98 10.04 10.10
Voltage at MPP \(V_{\text{MPP}}\) [V] 36.99 37.28 37.57 37.85 38.13
Efficiency\(^1\) \(\eta\) [%] ≥ 19.3 ≥ 19.5 ≥ 19.8 ≥ 20.1 ≥ 20.3
MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT\(^2\)
Power at MPP \(P_{\text{MPP}}\) [W] 273.3 277.1 280.8 284.6 288.3
Short Circuit Current \(I_{\text{SC}}\) [A] 8.38 8.41 8.43 8.46 8.48
Open Circuit Voltage \(V_{\text{OC}}\) [V] 42.37 42.41 42.44 42.48 42.51
Current at MPP \(I_{\text{MPP}}\) [A] 7.76 7.81 7.86 7.91 7.96
Voltage at MPP \(V_{\text{MPP}}\) [V] 35.23 35.48 35.72 35.96 36.20
\(^1\) Measurement tolerances \(P_{\text{MPP}}\) ± 3 %, \(I_{\text{SC}}\), \(V_{\text{OC}}\) ± 5 % at STC: 1000 W/m², 25 ± 2°C, AM 1.5 according to IEC 60904-3 •
\(^2\) Performance at low irradiance

Q CELLS PERFORMANCE WARRANTY

PERFORMANCE AT LOW IRRADIANCE

Typical module performance under low irradiance conditions in comparison to STC conditions (25 °C, 1000 W/m²).

TEMPERATURE COEFFICIENTS

<table>
<thead>
<tr>
<th>Coefficient</th>
<th>(\alpha) [% / K]</th>
<th>(\beta) [% / K]</th>
<th>(\gamma) [% / K]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature Coefficient of (I_{\text{SC}})</td>
<td>+0.04</td>
<td>Temperature Coefficient of (V_{\text{OC}})</td>
<td>−0.27</td>
</tr>
<tr>
<td>Temperature Coefficient of (P_{\text{MPP}})</td>
<td>−0.35</td>
<td>Nominal Module Operating Temperature</td>
<td>109 ± 5.4 (43 ± 3 °C)</td>
</tr>
</tbody>
</table>

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 86 % of nominal power up to 25 years.

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

PROPERTIES FOR SYSTEM DESIGN

Maximum System Voltage \(V_{\text{SYS}}\) [V] 1000 (IEC)/1000 (UL)
PV module classification Class II
Maximum Series Fuse Rating [A DC] 20 Fire Rating based on ANSI / UL 61730
Max. Design Load, Push/Pull\(^3\) [lbs/ft²] 84 (4000 Pa)/55 (2660 Pa)
Max. Test Load, Push/Pull\(^3\) [lbs/ft²] 125 (6000 Pa)/84 (4000 Pa)

\(^3\) See Installation Manual

QUALIFICATIONS AND CERTIFICATES


PACKAGING AND TRANSPORT INFORMATION

Horizontal packaging
74.4 in 1890 mm
42.6 in 1080 mm
47.6 in 1208 mm
145 lbs 66.1 kg
28 pallets 32 modules

Vertical packaging
78.8 in 1950 mm
45.3 in 1185 mm
46.7 in 1208 mm
150 lbs 68.2 kg
28 pallets 33 modules

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