Q.PEAK DUO L-G6.2
405-425
ENDURING HIGH PERFORMANCE

Q.ANTUM TECHNOLOGY: LOW LEVELISED COST OF ELECTRICITY
Higher yield per surface area, lower BOS costs, higher power classes, and an efficiency rate of up to 20.1%.

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

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 aluminium alloy frame, certified for high snow (5400 Pa) and wind loads (2400 Pa).

A RELIABLE INVESTMENT
Inclusive 12-year product warranty and 25-year linear performance warranty².

STATE OF THE ART MODULE TECHNOLOGY
Q.ANTUM DUO combines cutting edge cell separation and innovative wiring with Q.ANTUM Technology.

¹ APT test conditions according to IEC/TS 62804-1:2015, method B (−1500 V, 168 h)
² See data sheet on rear for further information.

THE IDEAL SOLUTION FOR:
- Rooftop arrays on commercial/industrial buildings
- Ground-mounted solar power plants

Engineered in Germany
**MECHANICAL SPECIFICATION**

- **Format**: 81.9 in × 40.6 in × 1.38 in (including frame)
  
  (2080 mm × 1030 mm × 35 mm)

- **Weight**: 55.1 lbs (25 kg)

- **Front Cover**: 0.13 in (3.2 mm) thermally pre-stressed glass with anti-reflection technology

- **Back Cover**: Composite film

- **Frame**: Anodized aluminum

- **Cell**: 6 × 24 monocrystalline Q.ANTUM solar half cells

- **Junction Box**: 2.09-3.98 × 1.26-2.36 × 0.59-0.71 in (53-101 × 32-60 × 15-18 mm)

- **Cable**: 4 mm² Solar cable; (+) ≥ 55.1 in (1400 mm), (−) ≥ 55.1 in (1400 mm)

- **Connector**: Stäubli MC4-Evo2, Hanwha Q CELLS HQC4, Amphenol UTX, Renhe OS-8, JMTTH JM601A, Tongling Cable01S-F; IP67 or Friends PV2e; IP67

**ELECTRICAL CHARACTERISTICS**

<table>
<thead>
<tr>
<th>POWER CLASS</th>
<th>405</th>
<th>410</th>
<th>415</th>
<th>420</th>
<th>425</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum Power at MPP</td>
<td>( P_{\text{MPP}} ) [W]</td>
<td>405</td>
<td>410</td>
<td>415</td>
<td>420</td>
</tr>
<tr>
<td>Short Circuit Current</td>
<td>( I_{\text{SC}} ) [A]</td>
<td>10.65</td>
<td>10.70</td>
<td>10.74</td>
<td>10.79</td>
</tr>
<tr>
<td>Open Circuit Voltage</td>
<td>( V_{\text{OC}} ) [V]</td>
<td>48.14</td>
<td>48.38</td>
<td>48.63</td>
<td>48.88</td>
</tr>
<tr>
<td>Current at MPP</td>
<td>( I_{\text{MP}} ) [A]</td>
<td>10.14</td>
<td>10.18</td>
<td>10.23</td>
<td>10.27</td>
</tr>
<tr>
<td>Voltage at MPP</td>
<td>( V_{\text{MP}} ) [V]</td>
<td>39.95</td>
<td>40.27</td>
<td>40.58</td>
<td>40.89</td>
</tr>
<tr>
<td>Efficiency</td>
<td>( \eta ) [%]</td>
<td>≥ 18.9</td>
<td>≥ 19.1</td>
<td>≥ 19.4</td>
<td>≥ 19.6</td>
</tr>
</tbody>
</table>

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

**MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT**

**Q CELLS PERFORMANCE WARRANTY**

At least 96% of nominal power during first year. Thereafter max. 0.54% degradation per year. At least 93.1% of nominal power up to 10 years. At least 85% 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.

**TEMPERATURE COEFFICIENTS**

- Temperature Coefficient of \( I_{\text{SC}} \) \( \alpha \) [% / K] +0.04
- Temperature Coefficient of \( V_{\text{OC}} \) \( \beta \) [% / K] −0.27
- Temperature Coefficient of \( P_{\text{MPP}} \) \( \gamma \) [% / K] −0.36

**Nominal Module Operating Temperature**

\( \text{NMOT} \) [°F] 109 ± 5.4 (43 ± 3 °C)

**PROPERTIES FOR SYSTEM DESIGN**

- **Maximum System Voltage** \( V_{\text{SYS}} \) [V] 1500 (IEC) / 1500 (UL)
- **PV module classification** Class II
- **Fire Rating based on ANSI / UL 1703** C (IEC) / TYPE 1 (UL)
- **Permitted Module Temperature on Continuous Duty** −40°F up to +185°F (~−40°C up to +85°C)

**QUALIFICATIONS AND CERTIFICATES**


**PACKAGING INFORMATION**

- **Number of Modules per Pallet**: 29
- **Number of Pallets per 53’ Trailer**: 26
- **Number of Pallets per 40’ HC-Container**: 22
- **Pallet Dimensions (L × W × H)**: 84.6 × 45.3 × 48.0 in (2150 × 1150 × 1220 mm)
- **Pallet Weight**: 1717 lbs (779 kg)

**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.

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