Q. PEAK DUO L-G6.3 / BGT
405-420
BIFACIAL DOUBLE GLASS MODULE WITH EXCELLENT RELIABILITY AND ADDITIONAL YIELD

BIFACIAL ENERGY YIELD GAIN OF UP TO 20%
Bifacial Q.ANTUM solar cells make efficient use of light shining on the module rear-side for radically improved LCOE.

LOW ELECTRICITY GENERATION COSTS
Q.ANTUM DUO combines cutting edge cell separation and innovative wiring with Q.ANTUM Technology for higher yield per surface area, lower BOS costs, higher power classes, and an efficiency rate of up to 19.8%.

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 and Anti PID Technology\(^1\), Hot-Spot Protect and Traceable Quality Tra.Q\(^q\).

FRAME FOR VERSATILE MOUNTING OPTIONS
High-tech aluminum alloy frame protects from damage, enables use of a wide range of mounting structures and is certified regarding IEC for high snow (5400 Pa) and wind loads (3000 Pa).

A RELIABLE INVESTMENT
Double glass module design enables extended lifetime with 12-year product warranty and improved 30-year performance warranty\(^2\).

\(^1\) APT test conditions according to IEC / TS 62804-1:2015 method B (-1500 V, 168 h) including post treatment according to IEC 61215-1-1 Ed. 2.0 (CD)
\(^2\) 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 × 40.5 in × 1.37 in (including frame)
  (2080 mm × 1030 mm × 35 mm)
- Weight: 62.8 lbs (28.5 kg)
- Front Cover: 0.07 in (2 mm) thermally pre-stressed glass
  with anti-reflection technology
- Back Cover: 0.07 in (2 mm) semi-tempered glass
- Frame: Anodized aluminum
- Cell: 6 × 24 monocrystalline Q.ANTUM solar half cells
- Junction Box: IP 420
- Connector: Stäubli MC4-Evo2, Hanwha Q CELLS HQC4, Amphenol UTX,
  friends PV2e, IP67, with bypass diodes
- Cable: 4 mm² Solar cable; (+) ≥ 17.7 in (450 mm), (−) ≥ 7.87 in (200 mm)
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ELECTRICAL CHARACTERISTICS

POWER CLASS

<table>
<thead>
<tr>
<th>Power at MPP</th>
<th>405</th>
<th>410</th>
<th>415</th>
<th>420</th>
</tr>
</thead>
<tbody>
<tr>
<td>P_MPP [W]</td>
<td>405</td>
<td>443.0</td>
<td>410</td>
<td>448.5</td>
</tr>
<tr>
<td>Short Circuit Current</td>
<td>10.65</td>
<td>11.66</td>
<td>10.70</td>
<td>11.71</td>
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<tr>
<td>Open Circuit Voltage</td>
<td>48.14</td>
<td>48.31</td>
<td>48.39</td>
<td>48.56</td>
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<tr>
<td>Voltage at MPP</td>
<td>39.95</td>
<td>39.94</td>
<td>40.27</td>
<td>40.26</td>
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<tr>
<td>Efficiency [%]</td>
<td>≥ 18.9</td>
<td>≥ 20.7</td>
<td>≥ 19.1</td>
<td>≥ 20.9</td>
</tr>
</tbody>
</table>

TEMPERATURE COEFFICIENTS

- Temperature Coefficient of P_MPP: +0.07 %/K
- Temperature Coefficient of I_SC: -0.35 %/K
- Temperature Coefficient of V_OC: +0.27 %/K
- Temperature Coefficient of V_OC: -0.27 %/K
- Temperature Coefficient of I_SC: -0.35 %/K

PROPERTIES FOR SYSTEM DESIGN

- Maximum System Voltage V_OC: 1500 (IEC)/1500 (UL)
- PV module classification: Class II
- Maximum Series Fuse Rating: 20 [A DC]
- Maximum Design Load, Push / Pull: 75 (3600 Pa)/42 (20000 Pa)
- Maximum Test Load, Push / Pull: 113 (5400 Pa)/63 (30000 Pa)
- Permitted Module Temperature on Continuous Duty: -40°F up to +85°F

QUALIFICATIONS AND CERTIFICATES

U.S. Patent No. 9,853,215
(solar cells)

PACKAGING AND TRANSPORT INFORMATION

- Horizontal packaging: 83.8 in × 40.5 in × 1.37 in (2130 mm × 1030 mm × 35 mm)
- Vertical packaging: 42.5 in × 1080 mm × 1196 mm × 867.4 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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