Q.PLUS DUO L-G5
360-375
EXCELLENT RELIABILITY AND OUTSTANDING YIELDS

LOW ELECTRICITY GENERATION COSTS
Higher yield per surface area, lower BOS costs, higher power classes, and an efficiency rate of up to 18.9 %.

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™.

EXTREME WEATHER RATING
High-tech aluminum alloy frame, certified for high snow (5400 Pa) and wind loads (2400 Pa) regarding IEC.

A RELIABLE INVESTMENT
Inclusive 12-year product warranty and 25-year linear performance guarantee\(^2\).

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:
Ground-mounted solar power plants

Engineered in Germany
**MECHANICAL SPECIFICATION**

- **Format:** 79.3 x 39.4 x 1.38 in (including frame) (2015 x 1000 x 35 mm)
- **Weight:** 50.7 lbs (23 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 x 24 multicrystalline Q.ANTUM solar half cells
- **Junction Box:** 2.09-3.98 x 1.26-2.36 x 0.59-0.71 in (53-101 x 32-60 x 15-18 mm), Protection class IP67, with bypass diodes
- **Cable:** 4mm² Solar cable; (+) ≥ 53.1 in (1350 mm), (−) ≥ 53.1 in (1350 mm)
- **Connector:** Stäubli MC4, Amphenol UTX, Renhe 05-6, Tongling TL-Cable01S, IP68 or Friends PV2e, IP67

**ELECTRICAL CHARACTERISTICS**

**POWER CLASS**

<table>
<thead>
<tr>
<th>Power at MPP</th>
<th>360</th>
<th>365</th>
<th>370</th>
<th>375</th>
</tr>
</thead>
<tbody>
<tr>
<td>P_MPP [W]</td>
<td>268.8</td>
<td>272.5</td>
<td>276.2</td>
<td>280.0</td>
</tr>
<tr>
<td>Short Circuit Current [A]</td>
<td>7.95</td>
<td>7.99</td>
<td>8.03</td>
<td>8.06</td>
</tr>
<tr>
<td>Open Circuit Voltage [V]</td>
<td>44.03</td>
<td>44.25</td>
<td>44.46</td>
<td>44.68</td>
</tr>
<tr>
<td>Current at MPP [A]</td>
<td>7.35</td>
<td>7.40</td>
<td>7.46</td>
<td>7.51</td>
</tr>
<tr>
<td>Voltage at MPP [V]</td>
<td>38.52</td>
<td>38.79</td>
<td>39.06</td>
<td>39.32</td>
</tr>
<tr>
<td>Efficiency [%]</td>
<td>≥ 179</td>
<td>≥ 181</td>
<td>≥ 184</td>
<td>≥ 18.6</td>
</tr>
</tbody>
</table>

**MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC**

- Power at MPP: [P_MPP] = 268.8 W
- Short Circuit Current: [I_SC] = 7.95 A
- Open Circuit Voltage: [V_OC] = 44.03 V
- Current at MPP: [I_MPP] = 7.35 A
- Voltage at MPP: [V_MPP] = 38.52 V
- Efficiency: [η] = ≥ 179%

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

- Power at MPP: [P_MPP] = 272.5 W
- Short Circuit Current: [I_SC] = 7.99 A
- Open Circuit Voltage: [V_OC] = 44.25 V
- Current at MPP: [I_MPP] = 7.40 A
- Voltage at MPP: [V_MPP] = 38.79 V
- Efficiency: [η] = ≥ 181%

**Q CELLS PERFORMANCE WARRANTY**

- At least 97% of nominal power during first year. Thereafter max. 0.54% degradation per year.
- At least 92% of nominal power up to 10 years. At least 84% of nominal power up to 25 years.

**TEMPERATURE COEFFICIENTS**

- Temperature Coefficient of [I_SC]: [α] = +0.04 [%/K]
- Temperature Coefficient of [V_OC]: [β] = −0.28 [%/K]
- Temperature Coefficient of [P_MPP]: [γ] = −0.37 [%/K]

**PERFORMANCE AT LOW IRRADIANCE**

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

**PROPERTIES FOR SYSTEM DESIGN**

- **Maximum System Voltage:** [V] = 1000 (IEC)/1000 (UL)
- **Safety Class:** II
- **Max. Design Load, Push / Pull:** [lbs/ft²] = 75 (3600Pa)/33 (1800Pa)
- **Max. Test Load, Push / Pull:** [lbs/ft²] = 113 (5400Pa)/50 (2400Pa)

**QUALIFICATIONS AND CERTIFICATES**

- Number of Modules per Pallet: 29
- Number of Pallets per 53’ Trailer: 26
- Number of Pallets per 40’ HC-Container: 22
- Pallet Dimensions (L x W x H): 81.9 x 45.3 x 46.7 in (2080 x 1150 x 1190 mm)
- Pallet Weight: 1606 lbs (727 kg)

**PACKAGING INFORMATION**

- Hanwha Q CELLS America Inc.
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**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.