Q.PEAK DUO XL-G11S SERIES

585-600 Wp | 156 Cells
21.5% Maximum Module Efficiency

The ideal solution for:

Ground-mounted solar power plants

Bifacial energy yield gain of up to 21%
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 technology with optimized module layout to boost module power and improve LCOE.

A reliable investment
Double glass module design enables extended lifetime with 12-year product warranty and improved 30-year performance warranty.

Enduring high performance
Long-term yield security with Anti LID and Anti PID Technology, Hot-Spot Protect.

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 (2400 Pa).

Innovative all-weather technology
Optimal yields, whatever the weather with excellent low-light and temperature behavior.

1 See data sheet on rear for further information.
2 APT test conditions according to IEC/TS 62804-1:2015 method B (−1500 V, 168h) including post treatment according to IEC 61215-1-1 Ed. 2.0 (CD)
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■ Mechanical Specification

Format 96.9 in × 44.6 in × 138 in (including frame) (2462 mm × 1134 mm × 35 mm)
Weight 76.9 lbs (34.9 kg)
Front Cover 0.08 in (2.0 mm) thermally pre-stressed glass with anti-reflective technology
Back Cover 0.08 in (2.0 mm) semi-tempered glass
Frame Anodised aluminium
Cell 6 × 26 monocrystalline Q.ANTUM solar half cells
Junction box 2.09-3.98 × 126.2-26.0 × 0.59-0.71 in (53-101 mm × 32-60 mm × 15-18 mm), Protection class IP67, with bypass diodes
Cable 4 mm² Solar cable; (+) ≥ 29.5 in (750 mm), (−) ≥ 13.8 in (350 mm)
Connector Stäubli MC4; Stäubli MC4-Evo2; - IP68

■ Electrical Characteristics

**POWER CLASS**

<table>
<thead>
<tr>
<th>Voltage at MPP</th>
<th>585</th>
<th>590</th>
<th>595</th>
<th>600</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum Power at MPP</td>
<td>P&lt;sub&gt;MIN&lt;/sub&gt;</td>
<td>639.9</td>
<td>645.4</td>
<td>650.8</td>
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<tr>
<td>Maximum Voltage at MPP</td>
<td>V&lt;sub&gt;MIN&lt;/sub&gt;</td>
<td>15.01</td>
<td>15.04</td>
<td>15.07</td>
</tr>
<tr>
<td>Short Circuit Current</td>
<td>I&lt;sub&gt;SC&lt;/sub&gt;</td>
<td>13.72</td>
<td>13.74</td>
<td>13.77</td>
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<tr>
<td>Open Circuit Voltage</td>
<td>V&lt;sub&gt;OC&lt;/sub&gt;</td>
<td>53.57</td>
<td>53.79</td>
<td>53.83</td>
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<tr>
<td>Current at MPP</td>
<td>I&lt;sub&gt;MPP&lt;/sub&gt;</td>
<td>13.07</td>
<td>13.12</td>
<td>13.17</td>
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<tr>
<td>Voltage at MPP</td>
<td>V&lt;sub&gt;MPP&lt;/sub&gt;</td>
<td>44.75</td>
<td>44.96</td>
<td>45.18</td>
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<tr>
<td>Efficiency</td>
<td>η</td>
<td>≥ 21.0</td>
<td>≥ 21.3</td>
<td>≥ 21.5</td>
</tr>
</tbody>
</table>

Minimum Power at MPP

| Power at MPP | 440.5 | 444.2 | 448.0 | 451.8 |
| Short Circuit Current | I<sub>SC</sub>  | 11.05 | 11.07 | 11.09 | 11.11 |
| Open Circuit Voltage | V<sub>OC</sub>  | 50.67 | 50.69 | 50.72 | 50.75 |
| Current at MPP | I<sub>MPP</sub>  | 10.30 | 10.34 | 10.38 | 10.42 |
| Voltage at MPP | V<sub>MPP</sub>  | 42.79 | 42.97 | 43.15 | 43.34 |

Minimum Power at MPP

**Q cells PERFORMANCE WARRANTY**

At least 98% of nominal power during first year. Thereafter max. 0.45% degradation per year. At least 93.95% of nominal power up to 10 years. At least 84.95% of nominal power up to 30 years. All data within measurement tolerances. Full warranties in accordance with the warranty terms of the Q cells sales organisation of your respective country.

**PERFORMANCE AT LOW IRRADIANCE**

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

**TEMPERATURE COEFFICIENTS**

Temperature Coefficient of I<sub>SC</sub> α [%/K] +0.04
Temperature Coefficient of V<sub>OC</sub> β [%/K] −0.27
Nominal Module Operating Temperature NMOT [°F] 108 ± 5.4 (42 ± 3°C)

■ Properties for System Design

Maximum System Voltage V<sub>sys</sub> [V] 1500
Maximum System Fuse Rating [A/DC] 25
Max. Design Load, Push/Pull (lbs/ft²) 75 (3600 Pa)/33 (1600 Pa)
Max. Test Load, Push/Pull (lbs/ft²) 113 (5400 Pa)/50 (2400 Pa)

■ Qualifications and Certificates