Q.PEAK DUO ML-G10+
SERIES

395 - 415 Wp | 132 Cells
21.1% Maximum Module Efficiency

Breaking the 21% efficiency barrier
Q.ANTUM DUO Z technology with zero gap cell layout boosts module efficiency up to 21.1%.

A reliable investment

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

Extreme weather rating
High-tech aluminium alloy frame, certified for high snow (5400 Pa) and wind loads (4000 Pa).

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

The most thorough testing programme in the industry
Qcells 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.

1 See data sheet on rear for further information.
2 APT test conditions according to IEC/TS 62804-1:2015, method A [−1500 V, 96 h]
## Mechanical Specification

- **Format**: 74.0 in x 41.1 in x 1.26 in (including frame) (1879 mm x 1045 mm x 32 mm)
- **Weight**: 48.5 lbs (22.0 kg)
- **Front Cover**: 0.13 in (3.2 mm) thermally pre-stressed glass with anti-reflection technology
- **Back Cover**: Composite film
- **Frame**: Black anodised aluminium
- **Cell**: 6 x 22 monocrystalline Q.ANTUM solar half cells
- **Cable**: 4 mm² Solar cable; (+) ≥ 49.2 in (1250 mm), (−) ≥ 49.2 in (1250 mm)
- **Connector**: Stäubli MC4; IP68
- **Weight**: 48.5 lbs (22.0 kg)

## Electrical Characteristics

### POWER CLASS

<table>
<thead>
<tr>
<th>Power at MPP</th>
<th>Minimum</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>SC [A]</td>
<td>11.13</td>
<td>11.26</td>
</tr>
<tr>
<td>OP [V]</td>
<td>45.03</td>
<td>45.13</td>
</tr>
<tr>
<td>Current at MPP [A]</td>
<td>10.58</td>
<td>11.76</td>
</tr>
<tr>
<td>Voltage at MPP [V]</td>
<td>37.32</td>
<td>38.11</td>
</tr>
</tbody>
</table>

### RELATIVE EFFICIENCY COMPARED TO NOMINAL POWER [%]

![Graph showing relative efficiency compared to nominal power]

### Shunt Tolerances

- **Power at MPP**: ± 3 %, SC, OP ≥ 5 % at STC: 1000 W/m², 25 ± 2 °C, AM 1.5 according to IEC 60904-3-2, 800 W/m², NMOT, spectrum AM 1.5

### PERFORMANCE AT LOW IRRADIANCE

- **At least 98 % 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 Qcells sales organisation of your respective country.

### TEMPERATURE COEFFICIENTS

<table>
<thead>
<tr>
<th>Temperature Coefficient of Isc</th>
<th>α [%/°K]</th>
<th>+0.04</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature Coefficient of Pmp</td>
<td>γ [%/°K]</td>
<td>-0.34</td>
</tr>
</tbody>
</table>

### Nominal Module Operating Temperature

- **NMOT**: 109 ± 5.4 °F (43 ± 3 °C)

### Properties for System Design

- **Maximum System Voltage**: 1000 (IEC)/1000 (UL)
- **Maximum Series Fuse Rating**: 20 A
- **Max. Design Load, Push/Pull**: 75 lbs (3600 Pa)/55 (2660 Pa)
- **Max. Test Load, Push/Pull**: 113 lbs (5400 Pa)/84 (4000 Pa)

### Qualifications and Certificates

- **Qcells PERFORMANCE WARRANTY**
- **PERFORMANCE AT LOW IRRADIANCE**

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Qcells pursues minimizing paper output in consideration of the global environment.

*Note: Installation instructions must be followed. Contact our technical service for further information on approved installation of this product.*