

powered by

**Q.ANTUM DUO Z**

# Q.PEAK DUO BLK-G10+ 350-370

ENDURING HIGH  
PERFORMANCE



Quality  
Controlled PV

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ID 1111232615



## BREAKING THE 21% EFFICIENCY BARRIER

Q.ANTUM DUO Z Technology with zero gap cell layout boosts module efficiency up to 20.9%.



## THE MOST THOROUGH TESTING PROGRAMME IN THE INDUSTRY

Q CELLS 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.



## 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 Technology<sup>1</sup>, Hot-Spot Protect and Traceable Quality Tra.Q™.



## EXTREME WEATHER RATING

High-tech aluminium alloy frame, certified for high snow (8100 Pa) and wind loads (4000 Pa).



## A RELIABLE INVESTMENT

Inclusive 25-year product warranty and 25-year linear performance warranty<sup>2</sup>.



6 BUSBAR  
CELL TECHNOLOGY

<sup>1</sup> APT test conditions according to IEC/TS 62804-1:2015, method A (~1500V, 96h)

<sup>2</sup> See data sheet on rear for further information.

## THE IDEAL SOLUTION FOR:



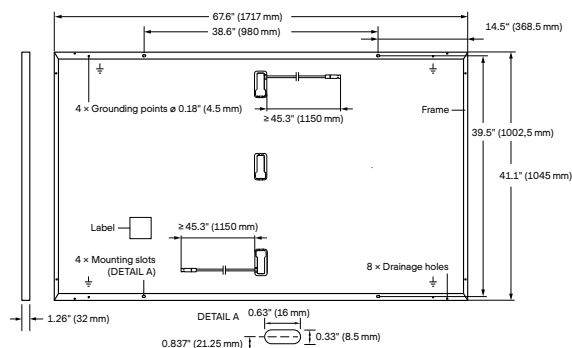
Rooftop arrays on  
residential buildings

Engineered in Germany

**Q CELLS**

## MECHANICAL SPECIFICATIONS

|              |  |
|--------------|--|
| Format       | 67.6 in × 41.1 in × 1.26 in (including frame)<br>(1717 mm × 1045 mm × 32 mm)                                   |
| Weight       | 43.8 lbs (19.9 kg)   |
| Front Cover  | 0.13 in (3.2 mm) thermally pre-stressed glass<br>with anti-reflection technology                               |
| Back Cover   | Composite film   |
| Frame        | Black anodized aluminum  |
| Cell         | 6 × 20 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),<br>Protection class IP67, with bypass diodes |
| Cable        | 4 mm <sup>2</sup> Solar cable; (+) ≥ 45.3 in (1150 mm), (-) ≥ 45.3 in (1150 mm)                                |
| Connector    | Stäubli MC4; IP68  |



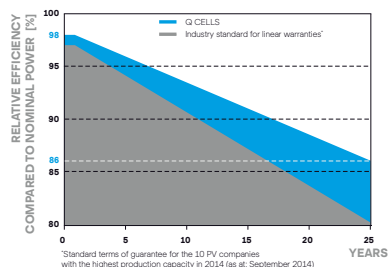
## ELECTRICAL CHARACTERISTICS

| POWER CLASS   |                                    |                  | 350 | 355   | 360   | 365   | 370   |       |
|---|------------------------------------|------------------|-----|-------|-------|-------|-------|-------|
| MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC <sup>1</sup> (POWER TOLERANCE +5 W / -0 W) |                                    |                  |     |       |       |       |       |       |
| Minimum   | Power at MPP <sup>1</sup>          | P <sub>MPP</sub> | [W] | 350   | 355   | 360   | 365   | 370   |
|   | Short Circuit Current <sup>1</sup> | I <sub>SC</sub>  | [A] | 10.97 | 11.00 | 11.04 | 11.07 | 11.10 |
|   | Open Circuit Voltage <sup>1</sup>  | V <sub>OC</sub>  | [V] | 41.11 | 41.14 | 41.18 | 41.21 | 41.24 |
|   | Current at MPP                     | I <sub>MPP</sub> | [A] | 10.37 | 10.43 | 10.49 | 10.56 | 10.62 |
|   | Voltage at MPP                     | V <sub>MPP</sub> | [V] | 33.76 | 34.03 | 34.31 | 34.58 | 34.84 |
|   | Efficiency <sup>1</sup>            | η                | [%] | ≥19.5 | ≥19.8 | ≥20.1 | ≥20.3 | ≥20.6 |
| MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT <sup>2</sup>                           |                                    |                  |     |       |       |       |       |       |
| Minimum   | Power at MPP                       | P <sub>MPP</sub> | [W] | 262.6 | 266.3 | 270.1 | 273.8 | 277.6 |
|   | Short Circuit Current              | I <sub>SC</sub>  | [A] | 8.84  | 8.87  | 8.89  | 8.92  | 8.95  |
|   | Open Circuit Voltage               | V <sub>OC</sub>  | [V] | 38.77 | 38.80 | 38.83 | 38.86 | 38.90 |
|   | Current at MPP                     | I <sub>MPP</sub> | [A] | 8.14  | 8.20  | 8.26  | 8.31  | 8.37  |
|   | Voltage at MPP                     | V <sub>MPP</sub> | [V] | 32.24 | 32.48 | 32.71 | 32.94 | 33.17 |

<sup>1</sup>Measurement tolerances P<sub>MPP</sub> ± 3%; I<sub>SC</sub>; V<sub>OC</sub> ± 5% at STC: 1000 W/m<sup>2</sup>, 25 ± 2 °C, AM 1.5 according to IEC 60904-3 • 2800 W/m<sup>2</sup>, NMOT, spectrum AM 1.5

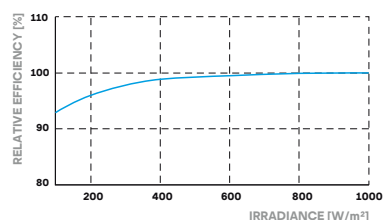
### Q CELLS PERFORMANCE WARRANTY

### 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 Q CELLS sales organisation of your respective country.



Typical module performance under low irradiance conditions in comparison to STC conditions (25 °C, 1000 W/m<sup>2</sup>).

### TEMPERATURE COEFFICIENTS

|   |         |       |  |           |                       |
|---|---------|-------|--|-----------|-----------------------|
| Temperature Coefficient of I <sub>SC</sub>  | α [%/K] | +0.04 | Temperature Coefficient of V <sub>OC</sub> | β [%/K]   | -0.27                 |
| Temperature Coefficient of P <sub>MPP</sub> | γ [%/K] | -0.35 | Nominal Module Operating Temperature       | NMOT [°F] | 109 ± 5.4 (43 ± 3 °C) |

## PROPERTIES FOR SYSTEM DESIGN

|  |                          |                              |   |   |
|--|--------------------------|------------------------------|---|---|
| Maximum System Voltage V <sub>sys</sub>    | [V]                      | 1000 (IEC)/1000 (UL)         | PV module classification                        | Class II                                      |
| Maximum Series Fuse Rating                 | [A DC]                   | 20                           | Fire Rating based on ANSI / UL 61730            | TYPE 2  |
| Max. Design Load, Push / Pull <sup>3</sup> | [lbs / ft <sup>2</sup> ] | 113 (5400 Pa) / 55 (2660 Pa) | Permitted Module Temperature on Continuous Duty | -40 °F up to +185 °F<br>(-40 °C up to +85 °C) |
| Max. Test Load, Push / Pull <sup>3</sup>   | [lbs / ft <sup>2</sup> ] | 169 (8100 Pa) / 84 (4000 Pa) |   |   |

<sup>3</sup> See Installation Manual

## QUALIFICATIONS AND CERTIFICATES

Quality Controlled PV - TÜV Rheinland;  
IEC 61215:2016; IEC 61730:2016.  
This data sheet complies  
with DIN EN 50380.

