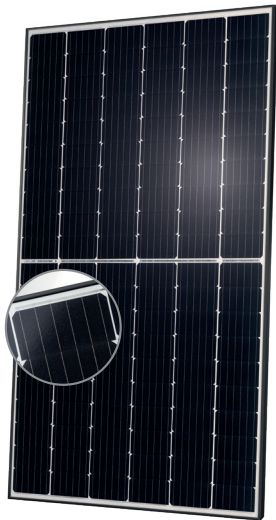


# Q.PEAK DUO-G10+ SERIES

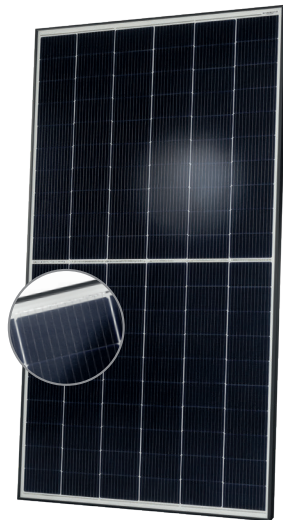


360-380 Wp | 120 Cells  
21.2% Maximum Module Efficiency

MODEL Q.PEAK DUO-G10+



6 busbar  
cell technology



12 busbar  
cell technology



## Breaking the 21% efficiency barrier

Q.ANTUM DUO Z Technology with zero gap cell layout boosts module efficiency up to 21.2%.



## A reliable investment

Inclusive 25-year product warranty and 25-year linear performance warranty<sup>1</sup>.



## Enduring high performance

Long-term yield security with Anti LeTID Technology, Anti PID Technology<sup>2</sup>, Hot-Spot Protect.



## Extreme weather rating

High-tech aluminium alloy frame, certified for high snow (8100 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.

<sup>1</sup> See data sheet on rear for further information.

<sup>2</sup> APT test conditions according to IEC/TS 62804-1:2015, method A (-1500V, 96h)

### The ideal solution for:



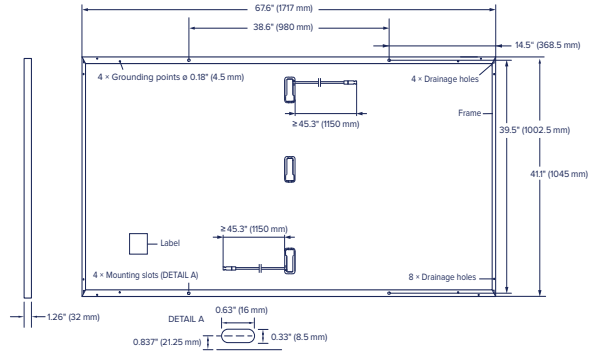
Rooftop arrays on  
residential buildings



# Q.PEAK DUO-G10+ SERIES

## Mechanical Specification

|              |  |
|--------------|--|
| 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 with anti-reflection technology  |
| Back Cover   | Composite film   |
| Frame        | Black anodised aluminium   |
| Cell         | 6 × 20 monocrystalline Q.ANTUM NEO solar half cells  |
| Junction box | 2.09-3.98 in × 1.26-2.36 in × 0.59-0.71 in<br>(53-101 mm × 32-60 mm × 15-18 mm), 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  |

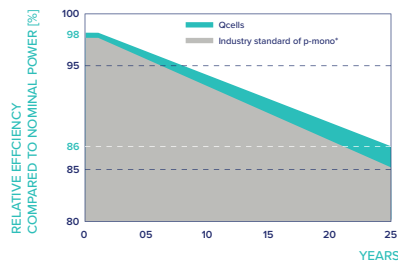


## Electrical Characteristics

| POWER CLASS   |                                    |                      | 360    | 365    | 370    | 375    | 380    |
|---|------------------------------------|----------------------|--------|--------|--------|--------|--------|
| 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] | 360    | 365    | 370    | 375    | 380    |
|   | Short Circuit Current <sup>1</sup> | I <sub>SC</sub> [A]  | 11.24  | 11.27  | 11.31  | 11.34  | 11.37  |
|   | Open Circuit Voltage <sup>1</sup>  | V <sub>OC</sub> [V]  | 41.20  | 41.23  | 41.26  | 41.30  | 41.33  |
|   | Current at MPP                     | I <sub>MPP</sub> [A] | 10.62  | 10.68  | 10.75  | 10.81  | 10.87  |
|   | Voltage at MPP                     | V <sub>MPP</sub> [V] | 33.89  | 34.16  | 34.43  | 34.69  | 34.95  |
|   | Efficiency <sup>1</sup>            | η [%]                | ≥ 20.1 | ≥ 20.3 | ≥ 20.6 | ≥ 20.9 | ≥ 21.2 |
| MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT <sup>2</sup>                         |                                    |                      |        |        |        |        |        |
| Minimum   | Power at MPP                       | P <sub>MPP</sub> [W] | 270.1  | 273.8  | 277.6  | 281.3  | 285.1  |
|   | Short Circuit Current              | I <sub>SC</sub> [A]  | 9.06   | 9.08   | 9.11   | 9.14   | 9.16   |
|   | Open Circuit Voltage               | V <sub>OC</sub> [V]  | 38.85  | 38.88  | 38.91  | 38.95  | 38.98  |
|   | Current at MPP                     | I <sub>MPP</sub> [A] | 8.34   | 8.40   | 8.46   | 8.51   | 8.57   |
|   | Voltage at MPP                     | V <sub>MPP</sub> [V] | 32.37  | 32.60  | 32.83  | 33.05  | 33.28  |

<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 • <sup>2</sup>800 W/m<sup>2</sup>, NMOT, spectrum AM 1.5

## Qcells PERFORMANCE WARRANTY

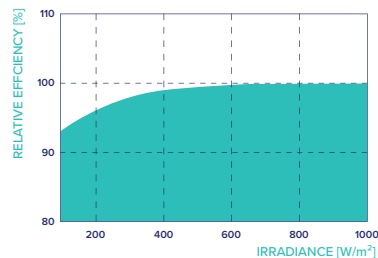


At least 98% of nominal power during first year. Thereafter max. 0.5% degradation per year. At least 93.5% of nominal power up to 10 years. At least 86% of nominal power up to 25 years.

All data within measurement tolerances. Full warranties in accordance with the warranty terms of the Qcells sales organisation of your respective country.

<sup>\*</sup>Standard terms of guarantee for the 5 PV companies with the highest production capacity in 2021 (February 2021)

## PERFORMANCE AT LOW IRRADIANCE



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] | -0.34 | Nominal Module Operating Temperature       | NMOT [°F] | 109 ± 5.4<br>(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.



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. Hanwha Q CELLS America Inc. 400 Spectrum Center Drive, Suite 1400, Irvine, CA 92618, USA | TEL +1 949 748 59 96 | EMAIL hqc-inquiry@qcells.com | WEB www.qcells.com

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