

# 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<sup>1</sup>, 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<sup>2</sup>.



### STATE OF THE ART MODULE TECHNOLOGY

Q.ANTUM DUO combines cutting edge cell separation and innovative wiring with Q.ANTUM Technology.

<sup>1</sup> APT test conditions according to IEC/TS 62804-1:2015, method B (-1500 V, 168h)

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

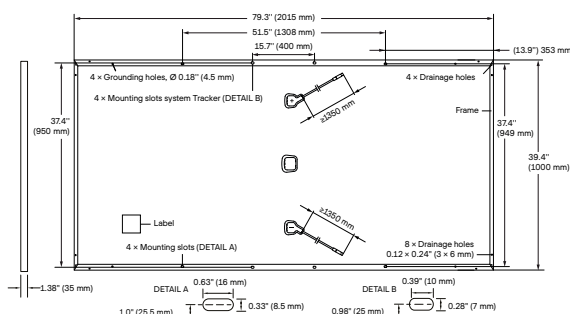
### THE IDEAL SOLUTION FOR:



Ground-mounted  
solar power plants

## MECHANICAL SPECIFICATION

|              |   |
|--------------|---|
| Format       | 79.3 × 39.4 × 1.38in (including frame)<br>(2015 × 1000 × 35 mm)   |
| Weight       | 50.7lbs (23 kg)   |
| Front Cover  | 0.13in (3.2mm) thermally pre-stressed glass<br>with anti-reflection technology                                |
| Back Cover   | Composite film  |
| Frame        | Anodized aluminum   |
| Cell         | 6 × 24 multicrystalline Q.ANTUM solar half cells  |
| Junction Box | 2.09-3.98 × 1.26-2.36 × 0.59-0.71in (53-101 × 32-60 × 15-18 mm),<br>Protection class IP67, with bypass diodes |
| Cable        | 4 mm <sup>2</sup> Solar cable; (+) ≥53.1in (1350mm), (-) ≥53.1in (1350mm)                                     |
| Connector    | Stäubli MC4, Amphenol UTX, Renhe 05-6,<br>Tongling TL-Cable01S, IP68 or Friends PV2e; IP67                    |

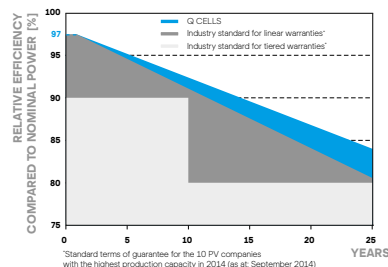


## ELECTRICAL CHARACTERISTICS

| POWER CLASS   |                                    |                      | 360   | 365   | 370   | 375   |
|---|------------------------------------|----------------------|-------|-------|-------|-------|
| 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   |
|   | Short Circuit Current <sup>1</sup> | I <sub>SC</sub> [A]  | 9.87  | 9.92  | 9.96  | 10.01 |
|   | Open Circuit Voltage <sup>1</sup>  | V <sub>OC</sub> [V]  | 46.80 | 47.03 | 47.26 | 47.49 |
|   | Current at MPP                     | I <sub>MPP</sub> [A] | 9.35  | 9.41  | 9.47  | 9.54  |
|   | Voltage at MPP                     | V <sub>MPP</sub> [V] | 38.52 | 38.79 | 39.05 | 39.32 |
|   | Efficiency <sup>1</sup>            | η [%]                | ≥17.9 | ≥18.1 | ≥18.4 | ≥18.6 |
| MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT <sup>2</sup>                           |                                    |                      |       |       |       |       |
| Minimum   | Power at MPP                       | P <sub>MPP</sub> [W] | 268.8 | 272.5 | 276.2 | 280.0 |
|   | Short Circuit Current              | I <sub>SC</sub> [A]  | 7.95  | 7.99  | 8.03  | 8.06  |
|   | Open Circuit Voltage               | V <sub>OC</sub> [V]  | 44.03 | 44.25 | 44.46 | 44.68 |
|   | Current at MPP                     | I <sub>MPP</sub> [A] | 7.35  | 7.40  | 7.46  | 7.51  |
|   | Voltage at MPP                     | V <sub>MPP</sub> [V] | 36.58 | 36.82 | 37.05 | 37.28 |

<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 1.5G according to IEC 60904-3 • 2800 W/m<sup>2</sup>, NMOT, spectrum AM 1.5 G

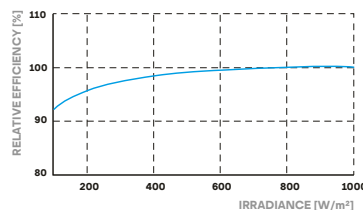
### Q CELLS PERFORMANCE WARRANTY



At least 97% of nominal power during first year. Thereafter max. 0.54% degradation per year. At least 92.0% of nominal power up to 10 years. At least 84% 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.

### 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]   | -0.28                 |
| Temperature Coefficient of P <sub>MPP</sub> | γ [%/K] | -0.37 | Normal 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)         | Safety Class                                    | II  |
| Maximum Series Fuse Rating                 | [A DC]                   | 20                           | Fire Rating                                     | C (IEC)/TYPE 2 (UL)                           |
| Max. Design Load, Push / Pull <sup>3</sup> | [lbs / ft <sup>2</sup> ] | 75 (3600 Pa) / 33 (1600 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> ] | 113 (5400 Pa) / 50 (2400 Pa) |   |   |

<sup>3</sup> See Installation Manual

## QUALIFICATIONS AND CERTIFICATES

UL 1703, CE-compliant, IEC 61215:2016, IEC 61730:2016, Application Class II



## PACKAGING INFORMATION

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

**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.

**Hanwha Q CELLS America Inc.**

400 Spectrum Center Drive, Suite 1400, Irvine, CA 92618, USA | TEL +1 949 748-5996 | EMAIL inquiry@us.q-cells.com | WEB www.q-cells.com/na