

Q.PEAK DUO XL-G11.3 / BFG 570-580

BIFACIAL DOUBLE GLASS MODULE WITH EXCELLENT RELIABILITY AND ADDITIONAL YIELD



THE REPORT OF THE PARTY OF THE







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 Z combines cutting edge cell separation and innovative wiring with Q.ANTUM Technology for higher yield per surface area, lower BOS costs, higher power classes, and an efficiency rate of up to 21.4%.



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, Hot-Spot Protect and Traceable Quality Tra.Q™.

#### 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).



A RELIABLE INVESTMENT

Double glass module design enables extended lifetime with 12-year product warranty and improved 30-year performance warranty<sup>1</sup>.

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

# THE IDEAL SOLUTION FOR:

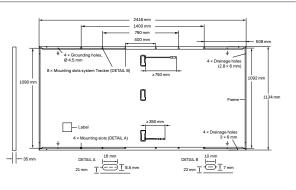


Ground-mounted solar power plants



## **MECHANICAL SPECIFICATION**

| Format       | 2416 mm $	imes$ 1134 mm $	imes$ 35 mm (including frame)                   |
|--------------|---|
| Weight       | 34.4kg  |
| Front Cover  | 2 mm thermally pre-stressed glass with anti-reflection technology         |
| Back Cover   | 2 mm semi-tempered glass  |
| Frame        | Anodised aluminium  |
| Cell         | 6 × 26 monocrystalline Q.ANTUM solar half cells                           |
| Junction box | 53-101mm × 32-60mm × 15-18mm<br>Protection class IP67, with bypass diodes |
| Cable        | 4 mm² Solar cable; (+) ≥750 mm, (–) ≥350 mm                               |
| Connector    | Stäubli MC4-Evo2, Hanwha Q CELLS HQC4; IP68                               |
|              |   |



# **ELECTRICAL CHARACTERISTICS**

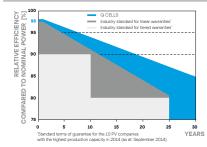
| POWER CLASS                        |                   |                               | 570                             |         | 575   |       | 580   |       |
|------------------------------------|-------------------|-------------------------------|---------------------------------|---------|-------|-------|-------|-------|
| MINIMUM PERFORMANCE AT STANDA      | ARD TEST CONDITIO | NS, STC <sup>1</sup> AND BSTC | <sup>1</sup> (POWER TOLERANCE - | ⊦5W/-0W | )     |       |       |       |
|                                    |                   |                               |                                 | BSTC*   |       | BSTC* |       | BSTC* |
| Power at MPP <sup>1</sup>          | P <sub>MPP</sub>  | [W]                           | 570                             | 623.5   | 575   | 629.0 | 580   | 634.4 |
| Short Circuit Current <sup>1</sup> | I <sub>sc</sub>   | [A]                           | 13.50                           | 14.77   | 13.52 | 14.80 | 13.55 | 14.83 |
| Open Circuit Voltage <sup>1</sup>  | V <sub>oc</sub>   | [V]                           | 53.50                           | 53.69   | 53.53 | 53.72 | 53.56 | 53.75 |
| Current at MPP                     | I <sub>MPP</sub>  | [A]                           | 12.83                           | 14.03   | 12.87 | 14.09 | 12.92 | 14.14 |
| Voltage at MPP                     | V <sub>MPP</sub>  | [V]                           | 44.44                           | 44.43   | 44.66 | 44.65 | 44.88 | 44.87 |
| Efficiency <sup>1</sup>            | η                 | [%]                           | ≥20.8                           | ≥22.8   | ≥21.0 | ≥23.0 | ≥21.2 | ≥23.2 |

<sup>1</sup>Measurement tolerances  $P_{MPP} \pm 3\%$ ;  $I_{SC}$ ,  $V_{OC} \pm 5\%$  at STC: 1000W/m<sup>2</sup>; \*at BSTC: 1000W/m<sup>2</sup> +  $\phi \times 135$ W/m<sup>2</sup>,  $\phi = 70\% \pm 5\%$ ,  $25 \pm 2$  °C, AM 1.5 according to IEC 60904-3 MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS. NMOT<sup>2</sup>

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|-------|-------------------------------|------------------|-------------------|-------|-------|-------|
|       | Power at MPP                  | P <sub>MPP</sub> | [W]               | 429.1 | 432.9 | 436.6 |
| Ę     | Short Circuit Current         | I <sub>sc</sub>  | [A]               | 10.87 | 10.89 | 10.91 |
| jū.   | Open Circuit Voltage          | V <sub>oc</sub>  | [V]               | 50.60 | 50.63 | 50.66 |
| Ξ     | Current at MPP                | I <sub>MPP</sub> | [A]               | 10.09 | 10.14 | 10.18 |
|       | Voltage at MPP                | V                | [V]               | 42.51 | 42.71 | 42.89 |

### $^{2}800\,\text{W/m}^{2}\text{,}$ NMOT, spectrum AM 1.5

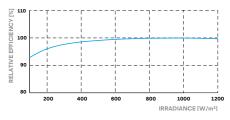
### Q CELLS PERFORMANCE WARRANTY



At least 98% of nominal power during first year. Thereafter max. 0.45% degradation per year. At least 94% of nominal power up to 10 years. At least 85% 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.





Typical module performance under low irradiance conditions in comparison to STC conditions (25  $^{\circ}\text{C},$  1000W/m²).

#### **TEMPERATURE COEFFICIENTS**

| Temperature Coefficient of $I_{sc}$     | a [%/K] +0.04 Temperature Coefficient of V <sub>oc</sub> |       | β     | [%/K]                                | -0.27 |      |      |
|---|--|-------|-------|--------------------------------------|-------|------|------|
| Temperature Coefficient of $P_{_{MPP}}$ | Y  | [%/K] | -0.34 | Nominal Module Operating Temperature | NMOT  | [°C] | 42±3 |

| Maximum System Voltage      | V <sub>SYS</sub> | [V]  | 1500      | PV module classification   | Class II               |
|-----------------------------|------------------|------|-----------|--|------------------------|
| Maximum Reverse Current     | I <sub>R</sub>   | [A]  | 25        | Fire Rating based on ANSI/UL 61730                                 | C/TYPE 29 <sup>3</sup> |
| Max. Design Load, Push/Pull |                  | [Pa] | 3600/1600 | Permitted Module Temperature on Continuous Duty                    | -40°C - +85°C          |
| Max. Test Load, Push/Pull   |                  | [Pa] | 5400/2400 | <sup>3</sup> New Type is similar to Type 3 but with metallic frame |                        |

PROPERTIES FOR SYSTEM DESIGN

### **QUALIFICATIONS AND CERTIFICATES**

| IEC 61215:2016,            |
|----------------------------|
| IEC 61730:2016.            |
| This data sheet complies w |
| DIN EN 50380.              |
|                            |



Vertical packaging 2458mm 1134mm 1270mm 1114.5kg 20 pallets 16 pallets 31 modules

**PACKAGING INFORMATION** 

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.

#### Made in China

#### Hanwha Q CELLS Australia Pty Ltd

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