

powered by

**Q.ANTUM DUO**

# Q.PEAK DUO-G6+ 340-355

ENDURING HIGH  
PERFORMANCE



## Q.ANTUM TECHNOLOGY: LOW LEVELISED COST OF ELECTRICITY

Higher yield per surface area, lower BOS costs, higher power classes, and an efficiency rate of up to 20.1%.



## 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 (5400 Pa) and wind loads (4000 Pa).



## A RELIABLE INVESTMENT

Inclusive 25-year product warranty and 25-year linear performance warranty<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 (-1500V, 168h)

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

## THE IDEAL SOLUTION FOR:



Rooftop arrays on  
residential buildings



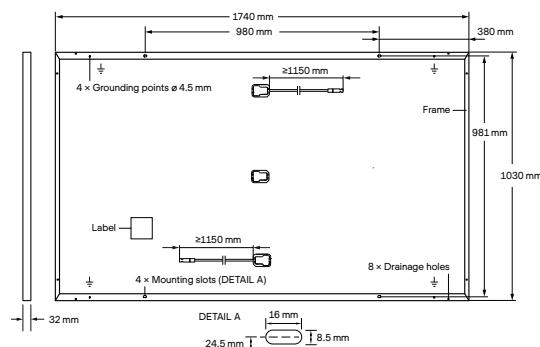
Rooftop arrays on  
commercial/industrial  
buildings

Engineered in Germany

**Q CELLS**

## MECHANICAL SPECIFICATION

|              |  |
|--------------|--|
| Format       | 1740 mm × 1030 mm × 32 mm (including frame)                                  |
| Weight       | 19.9 kg  |
| Front Cover  | 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 solar half cells                              |
| Junction box | 53-101 mm × 32-60 mm × 15-18 mm<br>Protection class IP67, with bypass diodes |
| Cable        | 4 mm <sup>2</sup> Solar cable; (+) ≥ 1150 mm, (-) ≥ 1150 mm                  |
| Connector    | Stäubli MC4; IP68  |

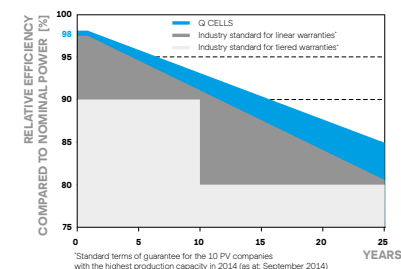


## ELECTRICAL CHARACTERISTICS

| POWER CLASS   |                                    | 340                  | 345    | 350    | 355    |
|---|------------------------------------|----------------------|--------|--------|--------|
| 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] | 340    | 345    | 350    |
|   | Short Circuit Current <sup>1</sup> | I <sub>SC</sub> [A]  | 10.68  | 10.73  | 10.84  |
|   | Open Circuit Voltage <sup>1</sup>  | V <sub>OC</sub> [V]  | 40.24  | 40.49  | 40.73  |
|   | Current at MPP                     | I <sub>MPP</sub> [A] | 10.16  | 10.22  | 10.27  |
|   | Voltage at MPP                     | V <sub>MPP</sub> [V] | 33.45  | 33.76  | 34.07  |
|   | Efficiency <sup>1</sup>            | η [%]                | ≥ 19.0 | ≥ 19.3 | ≥ 19.5 |
| MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT <sup>2</sup>                           |                                    |                      |        |        |        |
| Minimum   | Power at MPP                       | P <sub>MPP</sub> [W] | 254.5  | 258.2  | 261.9  |
|   | Short Circuit Current              | I <sub>SC</sub> [A]  | 8.60   | 8.65   | 8.69   |
|   | Open Circuit Voltage               | V <sub>OC</sub> [V]  | 37.94  | 38.17  | 38.41  |
|   | Current at MPP                     | I <sub>MPP</sub> [A] | 8.00   | 8.04   | 8.09   |
|   | Voltage at MPP                     | V <sub>MPP</sub> [V] | 31.81  | 32.10  | 32.40  |

<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

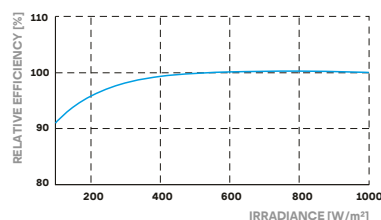
### Q CELLS PERFORMANCE WARRANTY



At least 98 % of nominal power during first year. Thereafter max. 0.54 % degradation per year. At least 93.1 % of nominal power up to 10 years. At least 85 % 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] | -0.27  |
| Temperature Coefficient of P <sub>MPP</sub> | γ | [%/K] | -0.36 | Normal Module Operating Temperature        | NMOT | [°C]  | 43 ± 3 |

## PROPERTIES FOR SYSTEM DESIGN

|                               |                  |      |             |   |                 |
|-------------------------------|------------------|------|-------------|---|-----------------|
| Maximum System Voltage        | V <sub>SYS</sub> | [V]  | 1000        | Safety Class                                    | II              |
| Maximum Reverse Current       | I <sub>R</sub>   | [A]  | 20          | Fire Rating based on ANSI / UL 1703             | C               |
| Max. Design Load, Push / Pull |                  | [Pa] | 3600 / 2667 | Permitted Module Temperature on Continuous Duty | -40 °C - +85 °C |
| Max. Test Load, Push / Pull   |                  | [Pa] | 5400 / 4000 |   |                 |

## QUALIFICATIONS AND CERTIFICATES

VDE Quality Tested, IEC 61215:2016; IEC 61730:2016, Application Class II;  
This data sheet complies with DIN EN 50380.



## PACKAGING INFORMATION

|  |                       |
|--|-----------------------|
| Number of Modules per Pallet                 | 32                    |
| Number of Pallets per Trailer (24t)          | 28                    |
| Number of Pallets per 40' HC-Container (26t) | 24                    |
| Pallet Dimensions (L × W × H)                | 1815 × 1150 × 1220 mm |
| Pallet Weight                                | 683 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 GmbH

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Engineered in Germany

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