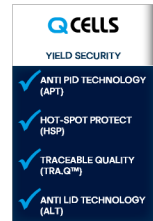


Q.PEAK DUO BLK-G6+

330-345

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 19.5%.



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 Technology¹, 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 warranty².



STATE OF THE ART MODULE TECHNOLOGY

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

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

² See data sheet on rear for further information.

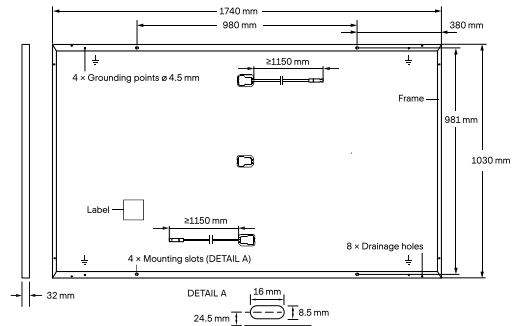
THE IDEAL SOLUTION FOR:



Rooftop arrays on residential buildings

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 Protection class IP67, with bypass diodes |
| Cable | 4 mm ² Solar cable; (+) ≥ 1150 mm, (-) ≥ 1150 mm |
| Connector | Stäubli MC4, Hanwha Q CELLS HQC4, Amphenol UTX, Renhe 05-6, Tongling TL-Cable01S, JMTHY JM601; IP68 or Friends PV2e; IP67 |

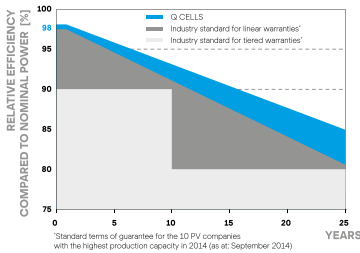


ELECTRICAL CHARACTERISTICS

| POWER CLASS | | 330 | 335 | 340 | 345 | |
|---|------------------------------------|---------------|--------|--------|--------|--------|
| MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC ¹ (POWER TOLERANCE +5 W / -0 W) | | | | | | |
| Minimum | Power at MPP ¹ | P_{MPP} [W] | 330 | 335 | 340 | 345 |
| | Short Circuit Current ¹ | I_{SC} [A] | 10.41 | 10.47 | 10.52 | 10.58 |
| | Open Circuit Voltage ¹ | V_{OC} [V] | 40.15 | 40.41 | 40.66 | 40.92 |
| | Current at MPP | I_{MPP} [A] | 9.91 | 9.97 | 10.02 | 10.07 |
| | Voltage at MPP | V_{MPP} [V] | 33.29 | 33.62 | 33.94 | 34.25 |
| | Efficiency ¹ | η [%] | ≥ 18.4 | ≥ 18.7 | ≥ 19.0 | ≥ 19.3 |
| MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT ² | | | | | | |
| Minimum | Power at MPP | P_{MPP} [W] | 247.0 | 250.7 | 254.5 | 258.2 |
| | Short Circuit Current | I_{SC} [A] | 8.39 | 8.43 | 8.48 | 8.52 |
| | Open Circuit Voltage | V_{OC} [V] | 37.86 | 38.10 | 38.34 | 38.59 |
| | Current at MPP | I_{MPP} [A] | 7.80 | 7.84 | 7.89 | 7.93 |
| | Voltage at MPP | V_{MPP} [V] | 31.66 | 31.97 | 32.27 | 32.57 |

¹Measurement tolerances $P_{MPP} \pm 3\%$; I_{SC} ; $V_{OC} \pm 5\%$ at STC: 1000 W/m², 25 ± 2 °C, AM 1.5 according to IEC 60904-3 • 2800 W/m², NMOT, spectrum AM 1.5

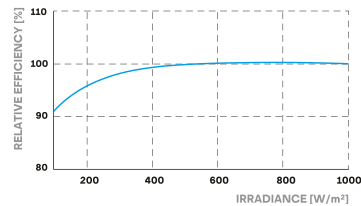
Q CELLS PERFORMANCE WARRANTY



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/m²).

TEMPERATURE COEFFICIENTS

| | | | | | |
|--------------------------------------|----------------|-------|-------------------------------------|---------------|--------|
| Temperature Coefficient of I_{SC} | α [%/K] | +0.04 | Temperature Coefficient of V_{OC} | β [%/K] | -0.27 |
| Temperature Coefficient of P_{MPP} | γ [%/K] | -0.36 | Normal Module Operating Temperature | NMOT [°C] | 43 ± 3 |

PROPERTIES FOR SYSTEM DESIGN

| | | | | |
|-------------------------------|---------------|-------------|---|-----------------|
| Maximum System Voltage | V_{SYS} [V] | 1000 | Safety Class | II |
| Maximum Reverse Current | I_R [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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