

Q.PEAK DUO-G6 330-345

Q.ANTUM SOLAR MODULE

The new **Q.PEAK DUO-G6** solar module from Q CELLS impresses thanks to innovative **Q.ANTUM DUO** Technology, which enables particularly high performance on a small surface. **Q.ANTUM**'s world-record-holding cell concept has now been combined with state-of-the-art circuitry half cells and a six-busbar design, thus achieving outstanding performance under real conditions — both with low-intensity solar radiation as well as on hot, clear summer days.



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 12-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:



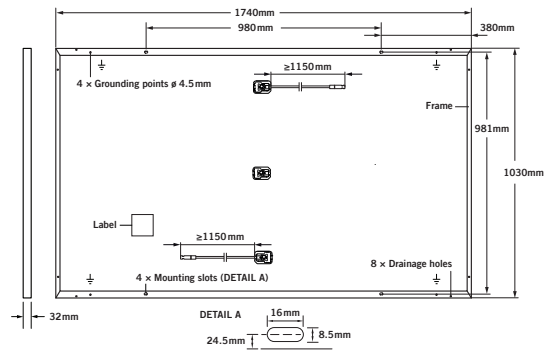
Rooftop arrays on residential buildings



Rooftop arrays on commercial/industrial buildings

MECHANICAL SPECIFICATION

Format	1740mm × 1030mm × 32mm (including frame)
Weight	19.9kg
Front Cover	3.2mm 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	61-71 mm × 41-50 mm × 13-21 mm Protection class IP67, with bypass diodes
Cable	4mm ² Solar cable; (+) 1150mm, (-) 1150mm
Connector	Multi-Contact MC4, IP68

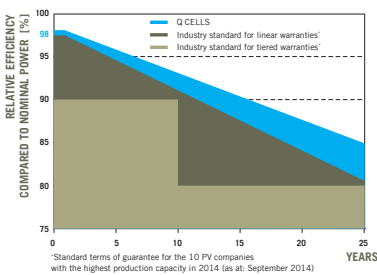


ELECTRICAL CHARACTERISTICS

POWER CLASS		330	335	340	345	
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC¹ (POWER TOLERANCE +5W / -0W)						
Minimum	Power at MPP¹	P_{MPP} [W]	330	335	340	345
	Short Circuit Current¹	I_{SC} [A]	10.57	10.62	10.68	10.73
	Open Circuit Voltage¹	V_{OC} [V]	39.74	39.99	40.24	40.49
	Current at MPP	I_{MPP} [A]	10.06	10.11	10.16	10.22
	Voltage at MPP	V_{MPP} [V]	32.81	33.13	33.45	33.76
	Efficiency¹	η [%]	≥ 18.4	≥ 18.7	≥ 19.0	≥ 19.3
MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT²						
Minimum	Power at MPP	P_{MPP} [W]	246.5	250.2	254.0	257.7
	Short Circuit Current	I_{SC} [A]	8.52	8.56	8.60	8.65
	Open Circuit Voltage	V_{OC} [V]	37.39	37.63	37.87	38.10
	Current at MPP	I_{MPP} [A]	7.92	7.96	8.00	8.04
	Voltage at MPP	V_{MPP} [V]	31.14	31.45	31.75	32.04

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

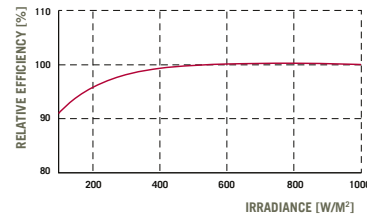
Q CELLS PERFORMANCE WARRANTY



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, 1000W/m²).

TEMPERATURE COEFFICIENTS

Temperature Coefficient of I_{SC}	α [%/K]	+0.04	Temperature Coefficient of V_{OC}	β [%/K]	-0.28
Temperature Coefficient of P_{MPP}	γ [%/K]	-0.37	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	C
Max. Design Load, Push / Pull	[Pa]	3600/2667	Permitted Module Temperature on Continuous Duty	-40°C up to +85°C
Max. Test Load, Push / Pull	[Pa]	5400/4000		

QUALIFICATIONS AND CERTIFICATES

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



PARTNER

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**

Q CELLS