

Q.PEAK DUO-G5 305-330

Q.ANTUM SOLAR MODULE

The new **Q.PEAK DUO-G5** 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 19.9%.



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).



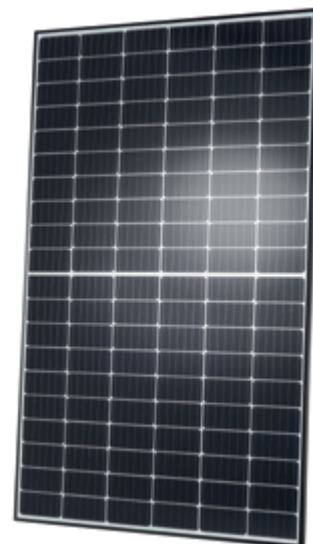
A RELIABLE INVESTMENT

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.



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THE IDEAL SOLUTION FOR:



Rooftop arrays on residential buildings



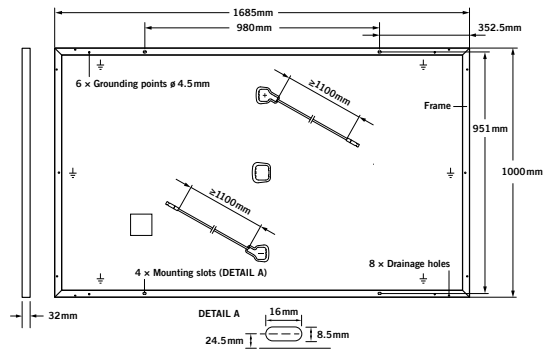
Rooftop arrays on commercial/industrial buildings

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

² See data sheet on rear for further information.

MECHANICAL SPECIFICATION

Format	1685mm × 1000mm × 32mm (including frame)
Weight	18.7 kg
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	70-85mm × 50-70mm × 13-21mm Protection class IP67, with bypass diodes
Cable	4mm ² Solar cable; (+) 1100mm, (–) 1100mm
Connector	Multi-Contact, MC4, IP65 and IP68



ELECTRICAL CHARACTERISTICS

POWER CLASS			305	310	315	320	325	330
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC ¹ (POWER TOLERANCE +5W / –0W)								
Minimum	Power at MPP ²	P _{MPP} [W]	305	310	315	320	325	330
	Short Circuit Current*	I _{SC} [A]	9,93	9,98	10.04	10.09	10.14	10.20
	Open Circuit Voltage*	V _{OC} [V]	39,35	39,61	39.87	40.13	40.40	40.66
	Current at MPP*	I _{MPP} [A]	9,44	9,50	9.55	9.60	9.66	9.71
	Voltage at MPP*	V _{MPP} [V]	32,30	32,64	32.98	33.32	33.65	33.98
	Efficiency ²	η [%]	≥ 18,1	≥ 18,4	≥ 18.7	≥ 19.0	≥ 19.3	≥ 19.6
MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NOC ³								
Minimum	Power at MPP ²	P _{MPP} [W]	226,0	229,7	233.4	237.2	240.9	244.6
	Short Circuit Current*	I _{SC} [A]	8,00	8,05	8.09	8.14	8.18	8.22
	Open Circuit Voltage*	V _{OC} [V]	36,80	37,05	37.30	37.54	37.79	38.04
	Current at MPP*	I _{MPP} [A]	7,43	7,47	7.51	7.56	7.60	7.64
	Voltage at MPP*	V _{MPP} [V]	30,43	30,75	31.07	31.39	31.70	32.01

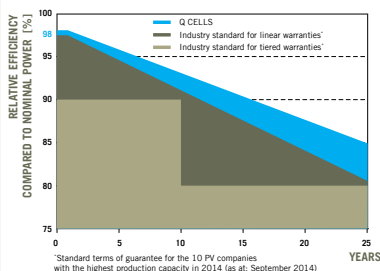
¹1000W/m², 25 °C, spectrum AM 1.5G

²Measurement tolerances STC ±3%; NOC ±5%

³800W/m², NOCT, spectrum AM 1.5G

*typical values, actual values may differ

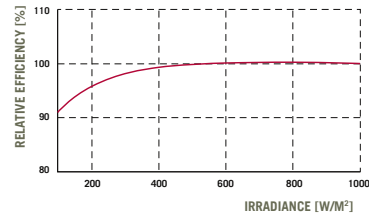
Q CELLS PERFORMANCE WARRANTY



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 Operating Cell Temperature	NOCT [°C]	45

PROPERTIES FOR SYSTEM DESIGN

Maximum System Voltage	V _{sys} [V]	1000	Safety Class	II
Maximum Reverse Current	I _R [A]	20	Fire Rating	C
Push/Pull Load (Test-load in accordance with IEC 61215)	[Pa]	5400/4000	Permitted Module Temperature On Continuous Duty	–40 °C up to +85 °C

QUALIFICATIONS AND CERTIFICATES

VDE Quality Tested, IEC 61215 (Ed. 2); IEC 61730 (Ed. 1), 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

