

Q.PEAK DUO XL-G11.3 570-590

ENDURING HIGH PERFORMANCE





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BREAKING THE 21% EFFICIENCY BARRIER

Q.ANTUM DUO Z Technology with zero gap cell layout boosts module efficiency up to 21.7%.



LOW ELECTRICITY GENERATION COSTS

Higher yield per surface area, lower BOS costs and up to 175 watts more module power than standard 144 half-cell modules.



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 (2400 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 12-busbar design with Q.ANTUM Technology.

 1 APT test conditions according to IEC /TS 62804-1:2015, method A (–1500 V, 96 h) 2 See data sheet on rear for further information.

THE IDEAL SOLUTION FOR:

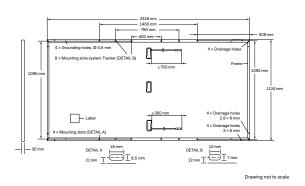


Ground-mounted solar power plants



MECHANICAL SPECIFICATION

Format	2416 mm × 1134 mm × 35 mm (including frame)
Weight	30.7kg
Front Cover	3.2mm thermally pre-stressed glass with anti-reflection technology
Back Cover	Composite film
Frame	Anodised aluminium
Cell	6×26 monocrystalline Q.ANTUM solar half cells
Junction box	53-101mm × 32-60mm × 15-18mm Protection class IP67, with bypass diodes
Cable	4 mm² Solar cable; (+) ≥750 mm, (–) ≥350 mm
Connector	Stäubli MC4-Evo2, Hanwha Q CELLS HQC4; IP68

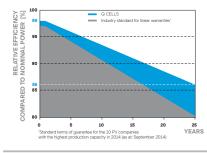


ELECTRICAL CHARACTERISTICS POWER CLASS 570 580 585 575 MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC¹ (POWER TOLERANCE +5 W / -0 W) Power at MPP¹ P_{MPP} 575 580 585 [W] 570 Short Circuit Current 13.49 13.51 13.54 13.57 [A] Isc Minimum Voc [V] 53.59 53.62 53.64 53.67 **Open Circuit Voltage** Current at MPP 12.82 12.87 12.92 12.97 IMPR [A] Voltage at MPP 44.46 44.68 44.90 45.12 V_{MPI} [V] Efficiency¹ ≥21.0 ≥21.2 ≥21.4 η [%] ≥20.8 MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT² P_{MP} Power at MPP 427.6 431.4 435.1 438.9 [W] Шn Short Circuit Current [A] 10.87 10.89 10.91 10.93 I_{SC} Minim 50.54 **Open Circuit Voltage** V_{oc} [V] 50.56 50.59 50.62 Current at MPP I_{MPP} [A] 10.09 10.13 10.17 10.22 V_{MPF} 42.39 42.58 42.77 42.96

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

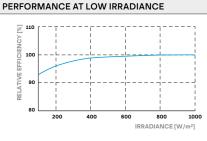
Q CELLS PERFORMANCE WARRANTY

Voltage at MPP



At least 98% of nominal power during first year. Thereafter max. 0.5% degradation per year. At least 93.5% of nominal power up to 10 years. At least 86% 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.



Typical module performance under low irradiance conditions in comparison to STC conditions (25 °C, 1000 W/m²).

PACKAGING INFORMATION

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1000kg

24t

20 pallets

40'HC

TEMPERATURE COEFFICIENTS

Temperature Coefficient of Isc	α	[%/K]	+0.04	Temperature Coefficient of Voc	β	[%/K]	-0.27
Temperature Coefficient of P _{MPP}	Y	[%/K]	-0.34	Nominal Module Operating Temperature	NMOT	[°C]	43±3

PROPERTIES FOR SYSTEM DESIGN								
Maximum System Voltage	V _{SYS}	[V]	1500	PV module classification	Class II			
Maximum Reverse Current	I _R	[A]	25	Fire Rating	С			
Max. Design Load, Push / Pull		[Pa]	3600/1600	Permitted Module Temperature	-40°C - +85°C			
Max. Test Load, Push/Pull		[Pa]	5400/2400	on Continuous Duty				

QUALIFICATIONS AND CERTIFICATES

IEC 61215:2016, IEC 61730:2016. This data sheet complies with DIN EN 50380.



packaging vw.tuv.c

2458mm 1134mm 1270mm

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.

Vertical

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590

590

13.59

53.70

13.01

45.33

≥21.5

442.6

10.95

50.64

10.26

43.14



16 pallets 31 modules