

Q.PEAK DUO XL-G11.2 570-590

ENDURING HIGH PERFORMANCE









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 warranty 2 .



STATE OF THE ART MODULE TECHNOLOGY

Q.ANTUM DUO combines cutting edge cell separation and innovative 12-busbar design with Q.ANTUM Technology.

- $^{\rm 1}$ APT test conditions according to IEC/TS 62804-1:2015, method B (–1500 V, 168h)
- ² See data sheet on rear for further information.

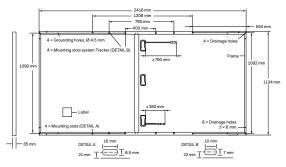
THE IDEAL SOLUTION FOR:





MECHANICAL SPECIFICATION

Format	2416 mm × 1134 mm × 35 mm (including frame)
Weight	31.3 kg
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



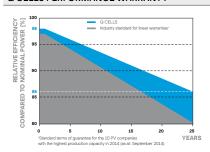
Drawing not to scale

ELECTRICAL CHARACTERISTICS

PO	WER CLASS			570	575	580	585	590
MIN	NIMUM PERFORMANCE AT STANDAR	RD TEST CONDITIO	NS, STC1 (PC	WER TOLERANCE	+5W/-0W)			
	Power at MPP¹	P _{MPP}	[W]	570	575	580	585	590
_	Short Circuit Current ¹	I _{sc}	[A]	13.49	13.51	13.54	13.57	13.59
nnu	Open Circuit Voltage ¹	V _{oc}	[V]	53.59	53.62	53.64	53.67	53.70
Minir	Current at MPP	I _{MPP}	[A]	12.82	12.87	12.92	12.97	13.01
2	Voltage at MPP	V _{MPP}	[V]	44.46	44.68	44.90	45.12	45.33
	Efficiency ¹	η	[%]	≥20.8	≥21.0	≥21.2	≥21.4	≥21.5
MIN	IIMUM PERFORMANCE AT NORMAL	OPERATING CONE	DITIONS, NM	OT ²				
	Power at MPP	P _{MPP}	[W]	427.6	431.4	435.1	438.9	442.6
E	Short Circuit Current	I _{sc}	[A]	10.87	10.89	10.91	10.93	10.95
Minim	Open Circuit Voltage	V _{oc}	[V]	50.54	50.56	50.59	50.62	50.64
	Current at MPP	I _{MPP}	[A]	10.09	10.13	10.17	10.22	10.26
	Voltage at MPP	V _{MPP}	[V]	42.39	42.58	42.77	42.96	43.14

*Measurement tolerances P_{MPP} ±3%; I_{So.}; V_{OO} ±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

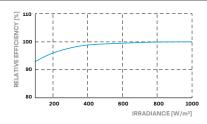


At least 98% of nominal power during first year. Thereafter max. 0.5% degradation per year. At least 93.5% of nominal power up to 10 years. At least 86% of nominal power up to

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.

PERFORMANCE AT LOW IRRADIANCE



Typical module performance under low irradiance conditions in comparison to STC conditions (25 $^{\circ}\text{C}, 1000\,\text{W/m}^2\text{)}.$

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

PROPERTIES FOR SYSTEM DESIGN

Maximum System Voltage	$V_{\scriptsize SYS}$	[V]	1500	PV module classification	Class II
Maximum Reverse Current	I_R	[A]	20	Fire Rating based on ANSI/UL 61730	C/TYPE 1
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.





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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