

# 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 Technology<sup>1</sup>, Hot-Spot Protect and Traceable Quality Tra.Q<sup>™</sup>.



#### **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<sup>2</sup>.



#### 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 B (–1500V, 168h)  $^2$  See data sheet on rear for further information.



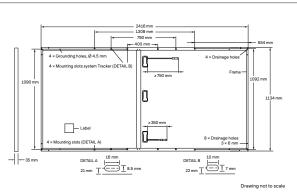


Ground-mounted solar power plants



### **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	53-101 mm × 32-60 mm × 15-18 mm Protection class IP67, with bypass diodes
Cable	4 mm² Solar cable; (+) ≥750 mm, (-) ≥350 mm
Connector	Stäubli MC4-Evo2, Hanwha Q CELLS HQC4; IP68

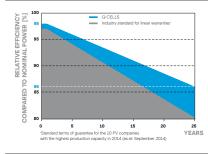


# ELECTRICAL CHARACTERISTICS

			LOTINOA					
PO\	VER CLASS		575	580	585	590		
MIN	IIMUM PERFORMANCE AT STANDARD	TEST CONDITIO	NS, STC <sup>1</sup> (PC	OWER TOLERANCE	+5W/-0W)			
Minimum	Power at MPP <sup>1</sup>	P <sub>MPP</sub>	[W]	570	575	580	585	590
	Short Circuit Current <sup>1</sup>	I <sub>sc</sub>	[A]	13.49	13.51	13.54	13.57	13.59
	Open Circuit Voltage <sup>1</sup>	V <sub>oc</sub>	[V]	53.59	53.62	53.64	53.67	53.70
	Current at MPP	IMPP	[A]	12.82	12.87	12.92	12.97	13.01
	Voltage at MPP	V <sub>MPP</sub>	[V]	44.46	44.68	44.90	45.12	45.33
	Efficiency <sup>1</sup>	η	[%]	≥20.8	≥21.0	≥21.2	≥21.4	≥21.5
MIN	IIMUM PERFORMANCE AT NORMAL C	PERATING CON	DITIONS, NM	IOT <sup>2</sup>				
	Power at MPP	P <sub>MPP</sub>	[W]	427.6	431.4	435.1	438.9	442.6
Minimum	Short Circuit Current	I <sub>sc</sub>	[A]	10.87	10.89	10.91	10.93	10.95
	Open Circuit Voltage	V <sub>oc</sub>	[V]	50.54	50.56	50.59	50.62	50.64
	Current at MPP	IMPP	[A]	10.09	10.13	10.17	10.22	10.26
	Voltage at MPP	V <sub>MPP</sub>	[V]	42.39	42.58	42.77	42.96	43.14

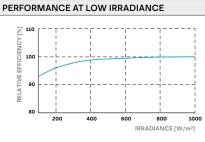
<sup>1</sup>Measurement tolerances P<sub>MPP</sub> ±3%; I<sub>sc</sub>; V<sub>oc</sub> ±5% at STC: 1000 W/m<sup>2</sup>, 25±2°C, AM 1.5 according to IEC 60904-3 • <sup>2</sup>800 W/m<sup>2</sup>, NMOT, spectrum AM 1.5

#### 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.



Typical module performance under low irradiance conditions in comparison to STC conditions (25  $^{\circ}C$ , 1000 W/m²).

#### **TEMPERATURE COEFFICIENTS**

Temperature Coefficient of I <sub>sc</sub>	α	[%/K]	+0.04	Temperature Coefficient of V <sub>oc</sub>	β	[%/K]	-0.27
Temperature Coefficient of P <sub>MPP</sub>	Ŷ	[%/K]	-0.34	Nominal Module Operating Temperature	NMOT	[°C]	43±3

### **PROPERTIES FOR SYSTEM DESIGN**

Maximum System Voltage	V <sub>SYS</sub>	[V]	1500	PV module classification	Class II
Maximum Reverse Current	I <sub>R</sub>	[A]	20	Fire Rating based on ANSI / UL 61730	C/TYPE1
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.

