

powered by

**Q.ANTUM DUO Z**

# Q.PEAK DUO XL-G11.3 / BFG 570-585

BIFACIAL DOUBLE GLASS MODULE  
WITH EXCELLENT RELIABILITY  
AND ADDITIONAL YIELD



## BIFACIAL ENERGY YIELD GAIN OF UP TO 20 %

Bifacial Q.ANTUM solar cells make efficient use of light shining on the module rear-side for radically improved LCOE.



## LOW ELECTRICITY GENERATION COSTS

Q.ANTUM DUO Z combines cutting edge cell separation and innovative wiring with Q.ANTUM Technology for higher yield per surface area, lower BOS costs, higher power classes, and an efficiency rate of up to 21.5%.



## INNOVATIVE ALL-WEATHER TECHNOLOGY

Optimal yields, whatever the weather with excellent low-light and temperature behavior.



## ENDURING HIGH PERFORMANCE

Long-term yield security with Anti LID and Anti PID Technology<sup>1</sup>, Hot-Spot Protect and Traceable Quality Tra.Q™.



## FRAME FOR VERSATILE MOUNTING OPTIONS

High-tech aluminum alloy frame protects from damage, enables use of a wide range of mounting structures and is certified regarding IEC for high snow (5400 Pa) and wind loads (2400 Pa).



## A RELIABLE INVESTMENT

Double glass module design enables extended lifetime with 12-year product warranty and improved 30-year performance warranty<sup>2</sup>.

<sup>1</sup> APT test conditions according to IEC/TS 62804-1:2015 method B (-1500 V, 168h) including post treatment according to IEC 61215-1-1 Ed. 2.0 (CD)

<sup>2</sup> See data sheet on rear for further information

### THE IDEAL SOLUTION FOR:



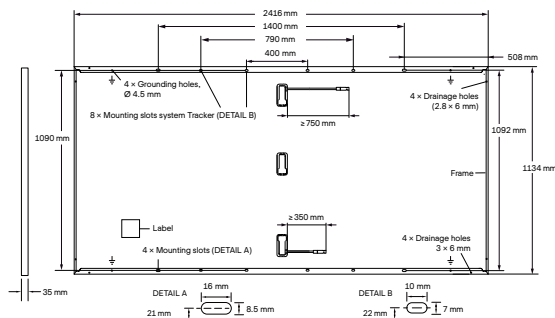
Ground-mounted  
solar power plants

Engineered in Germany

**Q CELLS**

## MECHANICAL SPECIFICATION

Format	2416 mm × 1134 mm × 35 mm (including frame)
Weight	34.4 kg
Front Cover	2 mm thermally pre-stressed glass with anti-reflection technology
Back Cover	2 mm semi-tempered glass
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 mm <sup>2</sup> Solar cable; (+) ≥ 750 mm, (-) ≥ 350 mm
Connector	Stäubli MC4-Evo2, Hanwha Q CELLS HQC4; IP68



## ELECTRICAL CHARACTERISTICS

POWER CLASS			570	575		580		585			
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC¹ AND BSC¹ (POWER TOLERANCE +5 W / -0 W)											
Minimum				BSC*		BSC*		BSC*		BSC*	
	Power at MPP¹	P <sub>MPP</sub>	[W]	570	623.5	575	629.0	580	634.4	585	639.9
	Short Circuit Current¹	I <sub>SC</sub>	[A]	13.50	14.77	13.52	14.80	13.55	14.83	13.57	14.86
	Open Circuit Voltage¹	V <sub>OC</sub>	[V]	53.50	53.69	53.53	53.72	53.56	53.75	53.59	53.78
	Current at MPP	I <sub>MPP</sub>	[A]	12.83	14.03	12.87	14.09	12.92	14.14	12.97	14.19
	Voltage at MPP	V <sub>MPP</sub>	[V]	44.44	44.43	44.66	44.65	44.88	44.87	45.10	45.09
	Efficiency¹	η	[%]	≥20.8	≥22.8	≥21.0	≥23.0	≥21.2	≥23.2	≥21.4	≥23.4

Bifaciality of P<sub>MPP</sub> and I<sub>SC</sub> 70% ± 5% • Bifaciality given for rear side irradiation on top of STC (front side) • According to IEC 60904-1-2

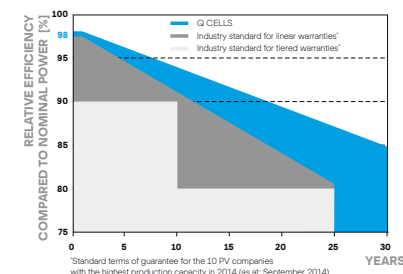
<sup>1</sup> Measurement tolerances P<sub>MPP</sub> ± 3%; I<sub>SC</sub>, V<sub>OC</sub> ± 5% at STC: 1000 W/m<sup>2</sup>; \*at BSC: 1000 W/m<sup>2</sup> + ϕ × 135 W/m<sup>2</sup>, ϕ = 70% ± 5%, 25 ± 2 °C, AM 1.5 according to IEC 60904-3

MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT<sup>2</sup>

Minimum	Power at MPP	P <sub>MPP</sub> [W]	429.1	432.9	436.6	440.4
	Short Circuit Current	I <sub>SC</sub> [A]	10.87	10.89	10.91	10.93
	Open Circuit Voltage	V <sub>OC</sub> [V]	50.60	50.63	50.66	50.68
	Current at MPP	I <sub>MPP</sub> [A]	10.09	10.14	10.18	10.22
	Voltage at MPP	V <sub>MPP</sub> [V]	42.51	42.71	42.89	43.08

<sup>2</sup> 800 W/m<sup>2</sup>, NMOT, spectrum AM 1.5

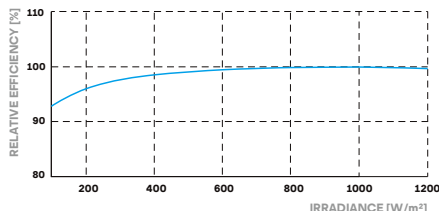
### Q CELLS PERFORMANCE WARRANTY



At least 98% of nominal power during first year. Thereafter max. 0.45% degradation per year. At least 94% of nominal power up to 10 years. At least 85% of nominal power up to 30 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, 1000 W/m<sup>2</sup>).

### 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>	γ	[%/K]	-0.34	Nominal Module Operating Temperature	NMOT	[°C]	42 ± 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]	25	Fire Rating based on ANSI / UL 61730	C / TYPE 29 <sup>3</sup>
Max. Design Load, Push / Pull	[Pa]	3600 / 1600	Permitted Module Temperature on Continuous Duty	-40 °C - +85 °C
Max. Test Load, Push / Pull	[Pa]	5400 / 2400	<sup>3</sup> New Type is similar to Type 3 but with metallic frame	

## QUALIFICATIONS AND CERTIFICATES

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



## PACKAGING INFORMATION

Vertical packaging	2458 mm	1134 mm	1270 mm	1114.5 kg	20 pallets	16 pallets	31 modules
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**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

