

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 1 , Hot-Spot Protect and Traceable Quality Tra. $\mathbb{Q}^{\mathbb{M}}$.



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 warranty².

THE IDEAL SOLUTION FOR:

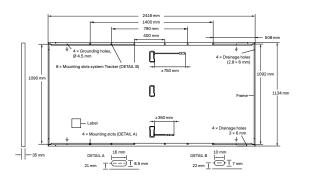


Ground-mounted solar power plants



 $^{^1}$ APT test conditions according to IEC/TS 62804-1:2015 method B (–1500 V, 168 h) including post treatment according to IEC 61215-1-1 Ed. 2.0 (CD)

² See data sheet on rear for further information



ELECTRICAL CHARACTERISTICS

PO	WER CLASS			570		575		580		585	
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC1 AND BSTC1 (POWER TOLERANCE +5 W / -0 W)											
					BSTC*		BSTC*		BSTC*		BSTC*
	Power at MPP¹	P _{MPP}	[W]	570	623.5	575	629.0	580	634.4	585	639.9
_	Short Circuit Current ¹	I _{sc}	[A]	13.50	14.77	13.52	14.80	13.55	14.83	13.57	14.86
Minimun	Open Circuit Voltage ¹	V _{oc}	[V]	53.50	53.69	53.53	53.72	53.56	53.75	53.59	53.78
	Current at MPP	I _{MPP}	[A]	12.83	14.03	12.87	14.09	12.92	14.14	12.97	14.19
	Voltage at MPP	V_{MPP}	[V]	44.44	44.43	44.66	44.65	44.88	44.87	45.10	45.09
	Efficiency ¹	η	[%]	≥20.8	≥22.8	≥21.0	≥23.0	≥21.2	≥23.2	≥21.4	≥23.4

Bifaciality of P_{MPP} and I_{SC} 70% \pm 5% • Bifaciality given for rear side irradiation on top of STC (front side) • According to IEC 60904-1-2

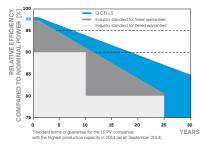
 $^{1}\text{Measurement tolerances P}_{\text{MFP}}\pm3\%; I_{\text{SC}}, V_{\text{OC}}\pm5\% \text{ at STC}: 1000 \text{ W/m}^{2}; \\ ^{+}\text{at BSTC}: 1000 \text{ W/m}^{2}+\phi\times135 \text{ W/m}^{2}, \\ \phi=70\%\pm5\%, 25\pm2\%\text{C}, \text{AM 1.5 according to IEC 60904-3}; \\ ^{+}\text{Measurement tolerances P}_{\text{MFP}}\pm3\%; I_{\text{SC}}, V_{\text{OC}}\pm5\% \text{ at STC}: 1000 \text{ W/m}^{2}; \\ ^{+}\text{at BSTC}: 1000 \text{ W/m}^{2}+\phi\times135 \text{ W/m}^{2}, \\ \phi=70\%\pm5\%, 25\pm2\%\text{C}, \text{AM 1.5 according to IEC 60904-3}; \\ ^{+}\text{Measurement tolerances P}_{\text{MFP}}\pm3\%; I_{\text{SC}}, V_{\text{OC}}\pm5\% \text{ at STC}: \\ ^{+}\text{Measurement tolerances P}_{\text{MFP}}\pm3\%; I_{\text{SC}}, V_{\text{OC}}\pm5\%; \\ ^{+}\text{Measurement tolerances P}_{\text{MFP}}\pm3\%; I_{\text{SC}}, V_{\text{CC}}\pm3\%; \\ ^{+}\text{Measurement tolerances P}_{\text{MFP}}\pm3\%; I_{\text{SC}}\pm3\%; \\ ^{+}\text{Measurement tolerances P}_{\text{MFP}}\pm3\%; I_{\text{SC}}\pm3\%; \\ ^{+}\text{Measurement tolerances P}_{\text{MFP}}\pm3\%; \\ ^{+}\text{Measurement tolerances P}_{\text{M$

MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT2

Minimum	Power at MPP	P _{MPP}	[W]	429.1	432.9	436.6	440.4
	Short Circuit Current	I _{sc}	[A]	10.87	10.89	10.91	10.93
	Open Circuit Voltage	V _{oc}	[V]	50.60	50.63	50.66	50.68
	Current at MPP	I _{MPP}	[A]	10.09	10.14	10.18	10.22
	Voltage at MPP	V _{MPP}	[V]	42.51	42.71	42.89	43.08

²800 W/m², NMOT, spectrum AM 1.5

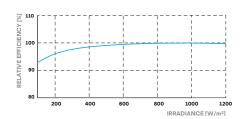
Q CELLS PERFORMANCE WARRANTY



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/m²).

TEMPERATURE COEFFICIENTS							
Temperature Coefficient of I _{SC}	α	[%/K]	+0.04	Temperature Coefficient of Voc	β	[%/K]	-0.27
Temperature Coefficient of PMDD	v	[%/K]	-0.34	Nominal Module Operating Temperature	NMOT	[°C]	42+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 on Continuous Duty	-40°C - +85°C
Max Test Load Push / Pull		[Pa]	5400 / 2400		

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

 $Sonnenallee 17-21, 06766 \ Bitterfeld-Wolfen, Germany \ | \ \textbf{TEL} + 49 \ (0)3494 \ 66 \ 99-23444 \ | \ \textbf{FAX} + 49 \ (0)3494 \ 66 \ 99-23000 \ | \ \textbf{EMAIL} \ sales@q-cells.com \ | \ \textbf{WEB} \ www.q-cells.com \ | \ \textbf{WeB} \ ww.q-cells.com \ | \ \textbf{WeB} \ www.q-cells.com \ | \ \textbf{WeB} \ ww.q-cells.com \ | \ \textbf{WeB} \ w.q-cells.com \ | \ \textbf{WeB} \ w.q-cells.com \ | \ \textbf{WeB}$

