Q.PEAK DUO XL-G11 **SERIES**



570-585 Wp | 156 Cells 21.4% Maximum Module Efficiency

MODEL Q.PEAK DUO XL-G11.3/BFG





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 21.4%.



A reliable investment

Double glass module design enables extended lifetime with 12-year product warranty and improved 30-year performance warranty1.



Enduring high performance

Long-term yield security with Anti LeTID and Anti PID Technology², Hot-Spot Protect.



Frame for versatile mounting options

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



Innovative all-weather technology

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

The ideal solution for:





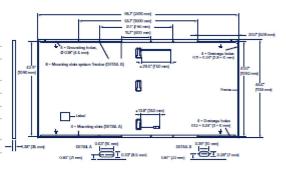


^{*} See data sheet on rear for further information.

* APT first conditions according to IEC/TS 62804-12015 method B (-1500V, 168h) including post treatment according to IEC 6(2)5-41 Ed. 2.0 (CO)

■ Mechanical Specification

	•
Format	95.1 in × 44.7 in × 1.38 in (including frame) (2416 mm × 1134 mm × 35 mm)
Weight	75.8 lbs (34.4 kg)
Front Cover	0.08 in (2 mm) thermally pre-stressed glass with anti-reflection technology
Back Cover	0.08 in (2 mm) semi-tempered glass
Frame	Anodised aluminium
Cell	6 × 26 monocrystalline Q.ANTUM solar half cells
Junction box	2.09-3.98 × 1.26-2.36 × 0.59-0.71 in (53-101mm × 32-60 mm × 15-18 mm). Protection class IP67, with bypass clodes
Cable	4mm2 Solar cable; (+) > 29.5 in (750 mm), (-) >13.8 in (350 mm)
Connector	Staubli MC4; Staubli MC4-Evo2; - IP68



■ Electrical Characteristics

PO	WER CLASS			570		575		580		585	
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC' (POWER TOLERANCE +5 W/-0 W)											
					BSTC*		BSTC*		BSTC*		BSTC*
	Power at MPP ¹	P	[W]	570	623.5	575	629.0	580	634.4	585	639.9
Minimum	Short Circuit Current ¹	L _{sc}	[A]	13.50	14.77	13.52	14.80	13.55	14.83	13.57	14.86
	Open Circuit Voltage ¹	Voc	[V]	53.50	53.69	53.53	53.72	53.56	5375	53.59	53.78
	Current at MPP	l _{ser}	[A]	12.83	14.03	12.87	14.09	12.92	14.14	12.97	14.19
	Voltage at MPP	V	[V]	44.44	44.43	44.66	44.65	44.88	44.87	45.10	45.09
	Efficiency ^s	η	[%]	≥20.8		≥ 21.0		≥21.2		≥21.4	

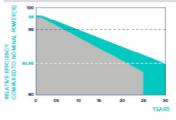
Bifaciality of P_{lane} and I_{sc} 70 % ±5% • Bifaciality given for rear side irradiation on top of STC (front side) • According to IEC 60904-12

 $^{1}\text{Measurement tolerances P}_{\text{sum}}\pm3\%; 1_{\text{sC}}\text{V}_{\text{DC}}\pm5\% \text{ at STC: }1000\text{W/m}^{2}, ^{a}\text{at BSTC: }1000\text{W/m}^{2}+\phi\times135\text{W/m}^{2}, \phi=70\%\pm5\%, 25\pm2\text{°C}, \text{AM 1.5 according to IEC 60904-3 MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT?}$

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

2800 W/m2, NMOT, spectrum AM 1.5

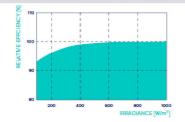
Qcells PERFORMANCE WARRANTY



At least 98% of nominal power during first year. Thereafter max. 0.45% degradation per year. At least 93.95% of nominal power up to 10 years. At least 84.95% of nominal power up to 30 years.

All data within measurement tolerances. Full warranties in accordance with the warranty terms of the Qcells sales organisation of your respective country.

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



PERFORMANCE AT LOW IRRADIANCE

CONTRACTOR OF STREET	- special contract of		
highest productio	n capacity in 20.	21 February 2028	
2			

TEMPERATURE COEFFICIENTS								
Temperature Coefficient of I _{sc}	а	[%/K]	+0.04	Temperature Coefficient of V _∞	β	[%/K]	-0.27	
Temperature Coefficient of P	γ	[%/K]	-0.34	Nominal Module Operating Temperature	NMOT	[*F]	109±5.4 (43±3°C)	

■ Properties for System Design

Maximum System Voltage	V _{ava}	[V]	1500	PV module classification	Class II
Maximum Series Fuse Rating		[A DC]	25	Fire Rating based on ANSI/UL 61730	TYPE 294
Max. Design Load, Push/Pull ^a		[lbs/ft ²]	75 (3600 Pa)/33 (1600 Pa)	Permitted Module Temperature	-40°F up to +185°F
Max. Test Load. Push/Pull		Ilbs/ft ^a l	113 (5400 Pai/50 (2400 Pai	on Continuous Duty	(-40°C up to +85°C)

² See Installation Manual

■ Qualifications and Certificates

UL 61730, CE-compliant, IEC 61215:2016, IEC 61730:2016, U.S. Patent No. 9,893,215 (solar colls)









ocells



⁴ New Type is similar to Type 3 but with metallic frame