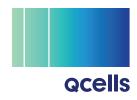
Q.PEAK DUO XL-G10 SERIES



475-490 Wp | 156 Cells 21.2% Maximum Module Efficiency

MODEL Q.PEAK DUO XL-10.3/BFG





6 busbar cell technology

12 busbar cell technology



Bifacial energy yield gain of up to 20%

Bifacial Q.ANTUM solar cells with zero gap cell layout 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 21.2%.



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 Technology, 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 certified regarding IEC for high snow (5400 Pa) and wind loads (3000 Pa).



Innovative all-weather technology

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

¹ See data sheet on rear for further information.
² 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)







The ideal solution for:

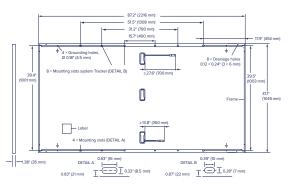
Ground mounted solar panels



Q.PEAK DUO XL-G10 SERIES

Mechanical Specification

Format	87.2 in × 41.1 in × 1.38 in (including frame) (2216 mm × 1045 mm × 35 mm)
Weight	64.2 lbs (29.1kg)
Front Cover	0.08 in (2.0 mm) thermally pre-stressed glass with anti-reflection technology
Back Cover	0.08 in (2.0 mm) semi-tempered glass
Frame	Anodized aluminum
Cell	6 × 26 monocrystalline Q.ANTUM solar half cells
Junction box	2.09-3.98 in × 1.26-2.36 in × 0.59-0.71 in (53-101 mm × 32-60 mm × 15-18 mm), IP67, with bypass diodes
Cable	4 mm² Solar cable; (+) ≥ 27.6 in (700 mm), (−) ≥13.8 in (350 mm)
Connector	Stäubli MC4, Stäubli MC4-Evo2, Hanwha Q CELLS HQC4, IP68



Electrical Characteristics

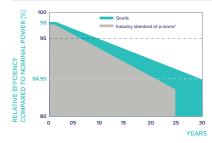
PC	OWER CLASS			475		480		485		490	
MI	NIMUM PERFORMANCE AT STA	ANDARD TEST	CONDITIO	NS, STC ¹ (POWI	ER TOLERANC	CE +5 W/-0 W)				
					BSTC*		BSTC*		BSTC*		BSTC*
	Power at MPP ¹	P _{MPP}	[W]	475	519.6	480	525.0	485	530.5	490	536.0
Minimum	Short Circuit Current ¹	I _{sc}	[A]	11.08	12.12	11.12	12.17	11.16	12.21	11.20	12.26
	Open Circuit Voltage ¹	V _{oc}	[V]	53.15	53.34	53.39	53.58	53.63	53.82	53.86	54.06
	Current at MPP	I _{MPP}	[A]	10.55	11.54	10.59	11.58	10.63	11.63	10.67	11.67
	Voltage at MPP	V _{MPP}	[V]	45.03	45.02	45.33	45.32	45.63	45.62	45.93	45.92
	Efficiency ¹	η	[%]	≥20.5		≥20.7		≥20.9		≥21.2	

Efficiency1η[%]≥ 20.5≥ 20.7≥ 20.9≥ 21.2Bifaciality of P_{MPP} and I_{SC} 70% ±5% bifaciality given for rear side irradiation on top of STC (front side) • According to IEC 60904-1-2¹Measurement tolerances P_{MPP} ±3%; I_{SC}, V_{oc} ±5% at STC: 1000 W/m²; *at BSTC: 1000 W/m² + φ × 135 W/m², φ = 70% ±5%, 25±2°C, AM 1.5 according to IEC 60904-3MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT²

	Power at MPP	P _{MPP}	[W]	357.6	361.4	365.1	368.9	
Ę	Short Circuit Current	I _{SC}	[A]	8.92	8.96	8.99	9.02	
ji ji	Open Circuit Voltage	V _{oc}	[V]	50.27	50.49	50.72	50.95	
Σ	Current at MPP	I _{MPP}	[A]	8.30	8.34	8.37	8.40	
	Voltage at MPP	V	[V]	43.06	43.35	43.63	43.92	

²800 W/m², NMOT, spectrum AM 1.5

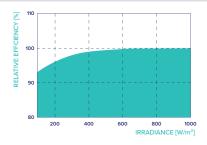
Qcells PERFORMANCE WARRANTY



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.

PERFORMANCE AT LOW IRRADIANCE



Typical module performance under low irradiance conditions in comparison to STC conditions (25° C, 1000 W/m^2).

*Standard terms of guarantee for the 5 PV companies with the highest production capacity in 2021 (February 2021)

TEMPERATURE COEFFICIENTS							
Temperature Coefficient of I _{sc}	α	[%/K]	+0.04	Temperature Coefficient of $\rm V_{\rm oc}$	β	[%/K]	-0.27
Temperature Coefficient of P _{MPP}	γ	[%/K]	-0.34	Nominal Module Operating Temperature	NMOT	[°F]	109±5.4 (43±3°C)

Properties for System Design

Maximum System Voltage	V _{SYS}	[V]	1500
Maximum Series Fuse Rating		[A DC]	20
Max. Design Load, Push/Pull ³		[lbs/ft ²]	75 (3600 Pa)/42 (2000 Pa)
Max. Test Load, Push/Pull ³		[lbs/ft ²]	113 (5400 Pa)/62 (3000 Pa)

³ See Installation Manual

Qualifications and Certificates

Quality Controlled PV -TÜV Rheinland; UL 61730, CE-compliant, IEC 61215:2016, IEC 61730:2016, U.S. Patent No. 9,893,215 (solar cells)



0	PV module classification	Class II
20	Fire Rating based on ANSI/UL 61730	TYPE 29 ⁴
- /	Permitted Module Temperature	–40°F up to +185°F
a)	on Continuous Duty	(-40°C up to +85°C)

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



Qcells

Qcells pursues minimizing paper output in consideration of the global environment. Note: Installation instructions must be followed. Contact our technical service for further information on approved installation of this product. Hanvha & CELLS America Inc. 400 Spectrum Center Drive, Suite 1400, Irvine, CA 92618, USA I TEL +1 949 748 59 96 I EMAIL hqc-inquiry@qcells.com I WEB www.qcells.com