

Q.PEAK DUO XL-G10.2

470-490

ENDURING HIGH PERFORMANCE









BREAKING THE 21% EFFICIENCY BARRIER

Q.ANTUM DUO Z Technology with zero gap cell layout boosts module efficiency up to 21.4%.



LOW ELECTRICITY GENERATION COSTS

Higher yield per surface area, lower BOS costs and up to 75 watts more module power than standard 144 half-cell modules.



ENDURING HIGH PERFORMANCE

Long-term yield security with Anti LID Technology, Hot-Spot Protect and Traceable Quality Tra.Q™.



EXTREME WEATHER RATING

High-tech aluminium alloy frame, certified for high snow (5400 Pa) and wind loads (3000 Pa).



A RELIABLE INVESTMENT

Inclusive 12-year product warranty and 25-year linear performance warranty¹.



STATE OF THE ART MODULE TECHNOLOGY

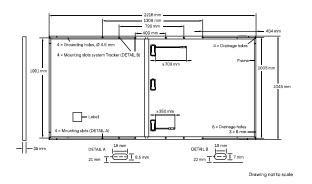
Q.ANTUM DUO combines cutting edge cell separation and innovative 12-busbar design with Q.ANTUM Technology.

THE IDEAL SOLUTION FOR:





¹ See data sheet on rear for further information.



*Long cables (+) ≥1450 mm, (-) ≥1450 mm for landscape installation are available upon request.

ELECTRICAL CHARACTERISTICS

PO	WER CLASS			475	480	485	490	
MIN	MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC1 (POWER TOLERANCE +5 W / -0 W)							
Minimum	Power at MPP¹	P _{MPP}	[W]	475	480	485	490	
	Short Circuit Current ¹	I _{sc}	[A]	11.24	11.26	11.29	11.31	
	Open Circuit Voltage ¹	V _{oc}	[V]	53.58	53.61	53.64	53.68	
	Current at MPP	I _{MPP}	[A]	10.66	10.71	10.76	10.81	
	Voltage at MPP	V_{MPP}	[V]	44.54	44.81	45.07	45.33	
	Efficiency ¹	η	[%]	≥20.5	≥20.7	≥20.9	≥21.2	
MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT ²								
Minimum	Power at MPP	P _{MPP}	[W]	356.4	360.1	363.9	367.6	
	Short Circuit Current	I _{sc}	[A]	9.05	9.07	9.09	9.12	
	Open Circuit Voltage	V _{oc}	[V]	50.53	50.56	50.59	50.62	
	Current at MPP	I _{MPP}	[A]	8.39	8.43	8.47	8.52	
	Voltage at MPP	V _{MPP}	[V]	42.49	42.72	42.94	43.17	

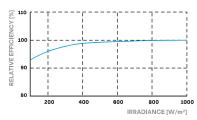
 $^{1}\text{Measurement tolerances P}_{\text{MEP}} \pm 3\%; I_{\text{SC}}; V_{\text{OC}} \pm 5\% \text{ at STC}; 1000 \text{ W/m}^{2}, 25 \pm 2\text{ °C}, \text{AM } 1.5 \text{ according to IEC } 60904-3 \cdot ^{2}800 \text{ W/m}^{2}, \text{NMOT, spectrum AM } 1.5 \text{ According } 1.5 \text{ Constant } 1.5$

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.

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 V _{oc}	β	[%/K]	-0.27	
Temperature Coefficient of P _{MPP}	Υ	[%/K]	-0.34	Nominal Module Operating Temperature	NMOT	[°C]	43±3	

PROPERTIES FOR SYSTEM DESIGN

Maximum System Voltage	V _{SYS}	[V]	1500	PV module classification	Class II
Maximum Reverse Current	I_R	[A]	20	Fire Rating based on ANSI/UL 61730	C/TYPE1
Max. Design Load, Push / Pull		[Pa]	3600/2000	Permitted Module Temperature	-40°C - +85°C
Max. Test Load, Push / Pull		[Pa]	5400/3000	on Continuous Duty	

QUALIFICATIONS AND CERTIFICATES

PACKAGING INFORMATION

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













835kg



12 pallets





20 pallets 30 modules

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

Made in Malaysia

Hanwha Q CELLS Australia Pty Ltd

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