

Q.PEAK DUO L-G8.2 415-430

ENDURING HIGH PERFORMANCE









Q.ANTUM TECHNOLOGY: LOW LEVELISED COST OF ELECTRICITY

Higher yield per surface area, lower BOS costs, higher power classes, and an efficiency rate of up to 20.3%.



INNOVATIVE ALL-WEATHER TECHNOLOGY

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



ENDURING HIGH PERFORMANCE

Long-term yield security with Anti LID Technology, Anti PID 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 (2400 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.

¹ See data sheet on rear for further information.

THE IDEAL SOLUTION FOR:





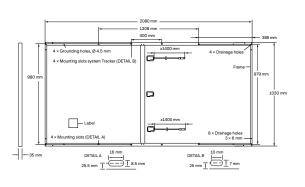


solar power plants



MECHANICAL SPECIFICATION

Format	$2080\text{mm} \times 1030\text{mm} \times 35\text{mm}$ (including frame)
Weight	25.0 kg
Front Cover	3.2 mm thermally pre-stressed glass with anti-reflection technology
Back Cover	Composite film
Frame	Anodised aluminium
Cell	6 × 24 monocrystalline Q.ANTUM solar half cells
Junction box	53-101mm × 32-60mm × 15-18mm Protection class IP67, with bypass diodes
Cable	4 mm² Solar cable; (+) ≥1400 mm, (–) ≥1400 mm
Connector	Stäubli MC4-Evo2; IP68

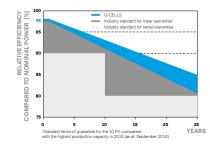


ELECTRICAL CHARACTERISTICS

PO\	WER CLASS			415	420	425	430
MIN	IIMUM PERFORMANCE AT STANDAI	RD TEST CONDITIO	NS, STC ¹ (POV	VER TOLERANCE +5 W /	-0W)		
	Power at MPP ¹	P _{MPP}	[W]	415	420	425	430
Minimum	Short Circuit Current ¹	I _{sc}	[A]	10.69	10.74	10.78	10.83
	Open Circuit Voltage ¹	V _{oc}	[V]	48.59	48.84	49.09	49.33
	Current at MPP	I _{MPP}	[A]	10.18	10.22	10.27	10.31
	Voltage at MPP	V _{MPP}	[V]	40.77	41.08	41.39	41.70
	Efficiency1	η	[%]	≥19.4	≥19.6	≥19.8	≥20.1
MIN	IIMUM PERFORMANCE AT NORMAL	OPERATING CONE	DITIONS, NMO	T ²			
	Power at MPP	P _{MPP}	[W]	310.8	314.5	318.3	322.0
Minimum	Short Circuit Current	I _{sc}	[A]	8.61	8.65	8.69	8.72
	Open Circuit Voltage	V _{oc}	[V]	45.82	46.05	46.29	46.52
	Current at MPP	I _{MPP}	[A]	8.01	8.05	8.08	8.12
	Voltage at MPP	V _{MPP}	[V]	38.79	39.09	39.38	39.67

¹Measurement tolerances P_{MPP} ±3%; I_{Sci}, V_{oc} ±5% at STC: 1000W/m², 25±2°C, AM 1.5 according to IEC 60904-3 • ²800 W/m², NMOT, spectrum AM 1.5

Q CELLS PERFORMANCE WARRANTY



At least 98% of nominal power during first year. Thereafter max. 0.54% degradation per year. At least 93.1% of nominal power up to 10 years. At least 85% 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.



Typical module performance under low irradiance conditions in comparison to STC conditions (25 $^{\circ}\text{C},$ 1000W/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}	γ	[%/K]	-0.35	Nominal Module Operating Temperature	NMOT	[°C]	43±3

PROPERTIES FOR SYSTEM DESIGN

Maximum System Voltage	$V_{\rm SYS}$	[V]	1500 (IEC)/1500 (UL)	PV module classification	Class II
Maximum Reverse Current	I _R	[A]	20	Fire Rating based on ANSI / UL 1703	C/TYPE1
Max. Design Load, Push / Pull		[Pa]	3600/1600	Permitted Module Temperature	-40°C - +85°C
Max. Test Load, Push / Pull		[Pa]	5400/2400	on Continuous Duty	

QUALIFICATIONS AND CERTIFICATES

PACKAGING INFORMATION

IEC 61215:2016; IEC 61730:2016;	Number of Modules per Pallet	29
This data sheet complies with DIN EN 50380.	Number of Pallets per Trailer (24t)	24
	Number of Pallets per 40' HC-Container (26t)	22
	Pallet Dimensions (L × W × H)	2150 × 1150 × 1220 mm
UL 1703 (254141)	Pallet Weight	779 kg

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 China

Hanwha Q CELLS Australia Pty Ltd

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