

Q.PEAK DUO L-G8

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 Technology¹, 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 warranty².



STATE OF THE ART MODULE TECHNOLOGY

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

¹ APT test conditions according to IEC/TS 62804-1:2015, method B (-1500V, 168h)

² See data sheet on rear for further information.

Engineered in Germany

THE IDEAL SOLUTION FOR:



Rooftop arrays on commercial/ industrial buildings

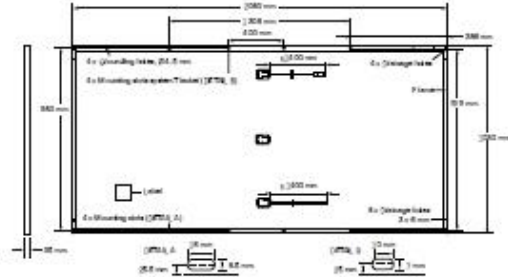


Ground-mounted solar power plants

getlithium.com

MECHANICAL SPECIFICATION

Format	2080 mm × 1030 mm × 35 mm (including frame)
Weight	24.5kg
Front Cover	3.2mm thermally pre-stressed glass with anti-reflection technology
Back Cover	Composite film
Frame	Anodised aluminium
Cell	6 × 24 monocrystalline QANTUM solar half cells
Junction box	53-101 mm × 32-60 mm × 15-18 mm Protection class IP67, with bypass diodes
Cable	4mm ² Solar cable, (+) ≥ 1400 mm, (-) ≥ 1400 mm
Connector	Stäubli MC4, Hanwha Q CELLS HQC4, Amphend UTX, Renhe OS-6, Tongling TL-Cable01S, JMTHY JM60L, IP68 or Friends PV2e, IP67

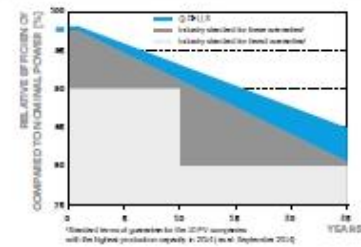


ELECTRICAL CHARACTERISTICS

POWER CLASS		415	420	425	430	
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC ¹ (POWER TOLERANCE +5W / -0W)						
Minimum	Power at MPP ¹	P_{MPP} [W]	415	420	425	430
	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
	Efficiency ¹	η [%]	≥ 19.4	≥ 19.6	≥ 19.8	≥ 20.1
MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT ²						
Minimum	Power at MPP	P_{MPP} [W]	310.8	314.5	318.3	322.0
	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 $P_{MPP} \pm 3\%$; I_{SC} ; $V_{OC} \pm 5\%$ at STC: 1000W/m², 25±2°C, AM 1.5 according to IEC 60904-3 - 7800W/m², NMOT, spectrum AM 1.5

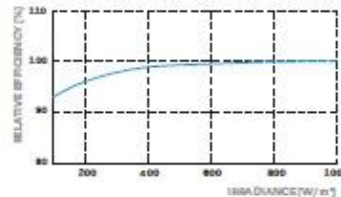
Q CELLS PERFORMANCE WARRANTY



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.

PERFORMANCE AT LOW IRRADIANCE



Typical module performance under low irradiance conditions in comparison to STC conditions (25°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_{SYS} [V]	1000(IEC)/1000(UL)	PV module classification	Class II
Maximum Reverse Current	I_R [A]	20	Fire Rating based on ANSI/UL 1703	C/TYP E 2
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.



PACKAGING INFORMATION

Number of Modules per Pallet	30
Number of Pallets per Trailer (24 t)	24
Number of Pallets per 40' HC-Container (26 t)	22
Pallet Dimensions (L × W × H)	2131 × 1130 × 1200mm
Pallet Weight	788kg

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.