

Q.PEAK DUO L-G8.2 395-410

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 19.4%.



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 wiring with Q.ANTUM Technology.

 $^{\rm 1}$ APT test conditions according to IEC/TS 62804-1:2015, method B (–1500V, 168 h) $^{\rm 2}$ See data sheet on rear for further information.

THE IDEAL SOLUTION FOR:



Rooftop arrays on commercial/industrial buildings



Ground-mounted solar power plants



MECHANICAL SPECIFICATION

Format	$2080\text{mm} \times 1030\text{mm} \times 35\text{mm}$ (including frame)					
Weight	24.5 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	53-101 mm × 32-60 mm × 15-18 mm Protection class IP67, with bypass diodes					
Cable	4 mm² Solar cable; (+) ≥1400 mm, (-) ≥1400 mm					
Connector	Stäubli MC4-Evo2, Hanwha Q CELLS HQC4, Amphenol UTX, Renhe 05-8, JMTHY JM601A, Tongling Cable01S-F; IP68 or Friends PV2e; IP67					



ELECTRICAL CHARACTERISTICS

PO	WER CLASS			395	400	405	410
MIN	IIMUM PERFORMANCE AT STANDA	RD TEST CONDITIO	NS, STC ¹ (PO	WER TOLERANCE +5 W /	-0W)		
Minimum	Power at MPP ¹	P _{MPP}	[W]	395	400	405	410
	Short Circuit Current ¹	I _{SC}	[A]	10.51	10.55	10.60	10.65
	Open Circuit Voltage ¹	V _{oc}	[V]	47.60	47.85	48.10	48.34
	Current at MPP	I _{MPP}	[A]	10.00	10.05	10.09	10.13
	Voltage at MPP	V _{MPP}	[V]	39.49	39.82	40.14	40.46
	Efficiency1	η	[%]	≥18.4	≥18.7	≥18.9	≥19.1
MIN	JIMUM PERFORMANCE AT NORMA	L OPERATING CON	DITIONS, NMC	DT ²			
	Power at MPP	P _{MPP}	[W]	295.8	299.6	303.3	307.1
Minimum	Short Circuit Current	I _{sc}	[A]	8.47	8.50	8.54	8.58
	Open Circuit Voltage	V _{oc}	[V]	44.88	45.11	45.35	45.58
	Current at MPP	I _{MPP}	[A]	7.87	7.91	7.94	7.98
	Voltage at MPP	V _{MPP}	[V]	37.58	37.89	38.19	38.49
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¹Measurement tolerances P_{MPP} ±3%; I_{SC}; V_{OC} ±5% at STC: 1000 W/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 dur-ing 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 toler-ances. 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°C, 1000 W/m²).

TEMPERATURE COEFFICIENTS

Temperature Coefficient of Isc	α	[%/K]	+0.04	Temperature Coefficient of Voc	β	[%/K]	-0.27
Temperature Coefficient of P _{MPP}	Ŷ	[%/K]	-0.35	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]	3600/1600	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. This data sheet complies with DIN EN 50380.						۶۲ <mark>KG</mark>	24t	40'HC	
		Horizontal packaging	2130 mm	1080 mm	1196mm	751 kg	24 pallets	22 pallets	29 modules
	ID 1111220277	Vertical packaging	2150 mm	1150mm	1220mm	765 kg	24 pallets	22 pallets	29 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. Q CELLS supplies solar modules in two different stacking methods, depending on the location of manufacture (modules are packed horizontally or vertically). You can find more detailed information in the document "Packaging and Transport Information", available from Q CELLS.

Hanwha Q CELLS GmbH

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