

# Q.PEAK DUO L-G6.2 415-435

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 20.5%.



₽ ₽

## 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 warranty<sup>2</sup>.



#### STATE OF THE ART MODULE TECHNOLOGY

Q.ANTUM DUO combines cutting edge cell separation and innovative wiring with Q.ANTUM Technology.

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

## THE IDEAL SOLUTION FOR:



Rooftop arrays on commercial/industrial buildings

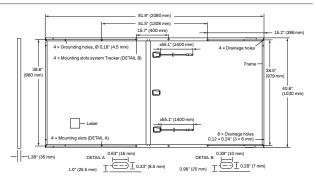


Ground-mounted solar power plants



#### **MECHANICAL SPECIFICATION**

Format	81.9 in × 40.6 in × 1.38 in (including frame) (2080 mm × 1030 mm × 35 mm)
Weight	55.1 lbs (25 kg)
Front Cover	0.13 in (3.2 mm) thermally pre-stressed glass with anti-reflection technology
Back Cover	Composite film
Frame	Anodized aluminum
Cell	6 × 24 monocrystalline Q.ANTUM solar half cells
Junction Box	$2.09-3.98\times1.26-2.36\times0.59-0.71$ in (53-101 $\times$ 32-60 $\times$ 15-18 mm), Protection class IP67, with bypass diodes
Cable	4 mm² Solar cable; (+) ≥55.1 in (1400 mm), (-) ≥55.1 in (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

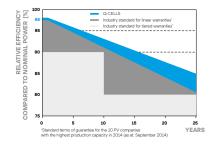


### **ELECTRICAL CHARACTERISTICS**

PO	WER CLASS			415	420	425	430	435
MIN	IIMUM PERFORMANCE AT STANDAR	D TEST CONDITIC	NS, STC <sup>1</sup> (PO	WER TOLERANCE +	5W/-0W)			
	Power at MPP <sup>1</sup>	P <sub>MPP</sub>	[W]	415	420	425	430	435
_	Short Circuit Current <sup>1</sup>	I <sub>sc</sub>	[A]	10.74	10.79	10.83	10.88	10.92
unu	Open Circuit Voltage <sup>1</sup>	V <sub>oc</sub>	[V]	48.63	48.88	49.13	49.38	49.62
Minir	Current at MPP	I <sub>MPP</sub>	[A]	10.23	10.27	10.32	10.36	10.41
2	Voltage at MPP	V <sub>MPP</sub>	[V]	40.58	40.89	41.20	41.50	41.81
	Efficiency1	η	[%]	≥19.4	≥19.6	≥19.8	≥20.1	≥20.3
MIN	IIMUM PERFORMANCE AT NORMAL	OPERATING CONI	DITIONS, NM	OT <sup>2</sup>				
	Power at MPP	P <sub>MPP</sub>	[W]	310.6	314.4	318.1	321.8	325.6
Ш	Short Circuit Current	I <sub>sc</sub>	[A]	8.65	8.69	8.73	8.76	8.80
nim	Open Circuit Voltage	V <sub>oc</sub>	[V]	45.86	46.09	46.33	46.56	46.80
Rir	Current at MPP	I <sub>MPP</sub>	[A]	8.05	8.09	8.12	8.16	8.19
	Voltage at MPP	V	[V]	38.59	38.88	39.17	39.46	39.75

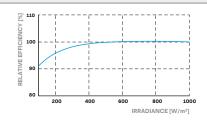
<sup>1</sup>Measurement tolerances P<sub>MPP</sub> ± 3%; I<sub>SC</sub>; V<sub>oc</sub> ± 5% at STC: 1000 W/m<sup>2</sup>, 25 ± 2°C, AM 1.5 according to IEC 60904-3 • <sup>2</sup>800 W/m<sup>2</sup>, NMOT, spectrum AM 1.5

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, 1000 W/m²)

#### **TEMPERATURE COEFFICIENTS**

Temperature Coefficient of I <sub>sc</sub>	α	[%/K]	+0.04	Temperature Coefficient of Voc	β	[%/K]	-0.27
Temperature Coefficient of P <sub>MPP</sub>	γ	[%/K]	-0.36	Nominal Module Operating Temperature	NMOT	[°F]	109±5.4 (43±3°C)

#### **PROPERTIES FOR SYSTEM DESIGN**

Maximum Series Fuse Rating [A DC] 20 Fire Rating based on ANSI/UL 61730   Max. Design Load, Push/Pull <sup>3</sup> [Ibs/ft <sup>2</sup> ] 75 (3600 Pa)/33 (1600 Pa) Permitted Module Temperature on Continuous Duty   Max. Test Load, Push/Pull <sup>3</sup> [Ibs/ft <sup>2</sup> ] 113 (5400 Pa)/50 (2400 Pa) Permitted Module Temperature on Continuous Duty	−40°F up to +185°F (−40°C up to +85°C)
Max. Design Load, Push / Pull <sup>3</sup> [lbs / ft <sup>2</sup> ] 75 (3600 Pa) / 33 (1600 Pa) Permitted Module Temperature	
Maximum Series Fuse Rating [A DC] 20 Fire Rating based on ANSI/ 0L 61/30	
	TYPE 1
Maximum System Voltage V <sub>SYS</sub> [V] 1500 (IEC)/1500 (UL) PV module classification	Class II

<sup>3</sup> See Installation Manual

#### **QUALIFICATIONS AND CERTIFICATES**

UL 61730, CE-compliant. IEC 61215:2016, IEC 61730:2016, U.S. Patent No. 9,893,215 (solar cells)

#### **PACKAGING INFORMATION**



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 America Inc.

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