

# Q.PLUS DUO L-G5.3

## 360-380

EXCELLENT RELIABILITY  
AND OUTSTANDING YIELDS



### LOW ELECTRICITY GENERATION COSTS

Higher yield per surface area, lower BOS costs, higher power classes, and an efficiency rate of up to 19.1%.



### INNOVATIVE ALL-WEATHER TECHNOLOGY

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



### ENDURING HIGH PERFORMANCE

Long-term yield security with Anti LID and Anti PID Technology<sup>1</sup>, Hot-Spot Protect and Traceable Quality Tra.Q™.



### EXTREME WEATHER RATING

High-tech aluminum alloy frame, certified for high snow (5400 Pa) and wind loads (2400 Pa) regarding IEC.



### A RELIABLE INVESTMENT

Inclusive 12-year product warranty and 25-year linear performance guarantee<sup>2</sup>.



### STATE OF THE ART MODULE TECHNOLOGY

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

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

<sup>2</sup> See data sheet on rear for further information

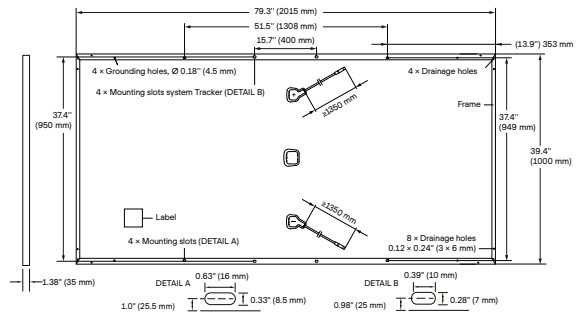
### THE IDEAL SOLUTION FOR:



Ground-mounted  
solar power plants

## MECHANICAL SPECIFICATION

Format	79.3 × 39.4 × 1.38in (including frame) (2015 × 1000 × 35mm)
Weight	50.7lbs (23.0kg)
Front Cover	0.13in (3.2mm) thermally pre-stressed glass with anti-reflection technology
Back Cover	Composite film
Frame	Anodized aluminum
Cell	6 × 24 multicrystalline Q.ANTUM solar half cells
Junction Box	2.09-3.98 × 1.26-2.36 × 0.59-0.71in (53-101 × 32-60 × 15-18mm), Protection class IP67, with bypass diodes
Cable	4mm <sup>2</sup> Solar cable; (+) ≥53.1in (1350mm), (-) ≥53.1in (1350mm)
Connector	Stäubli MC4-Evo2, Hanwha Q CELLS HQC4, Amphenol UTX, Renhe 05-8, JMTHY JM601A; Tongling Cable01S-F, IP68 or Friends PV2e; IP67

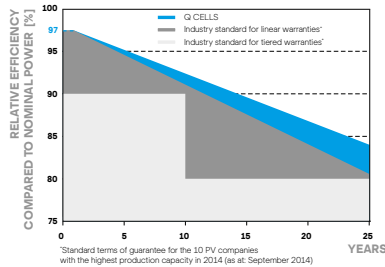


## ELECTRICAL CHARACTERISTICS

POWER CLASS			360	365	370	375	380
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC <sup>1</sup> (POWER TOLERANCE +5 W / -0 W)							
Minimum	Power at MPP <sup>1</sup>	P <sub>MPP</sub> [W]	360	365	370	375	380
	Short Circuit Current <sup>1</sup>	I <sub>SC</sub> [A]	9.87	9.92	9.96	10.01	10.06
	Open Circuit Voltage <sup>1</sup>	V <sub>OC</sub> [V]	46.80	47.03	47.26	47.49	47.71
	Current at MPP	I <sub>MPP</sub> [A]	9.35	9.41	9.47	9.54	9.60
	Voltage at MPP	V <sub>MPP</sub> [V]	38.52	38.79	39.05	39.32	39.57
	Efficiency <sup>1</sup>	η [%]	≥17.9	≥18.1	≥18.4	≥18.6	≥18.9
MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT <sup>2</sup>							
Minimum	Power at MPP	P <sub>MPP</sub> [W]	269.1	272.9	276.6	280.3	284.1
	Short Circuit Current	I <sub>SC</sub> [A]	7.95	7.99	8.03	8.06	8.10
	Open Circuit Voltage	V <sub>OC</sub> [V]	44.03	44.25	44.46	44.68	44.90
	Current at MPP	I <sub>MPP</sub> [A]	7.35	7.40	7.46	7.51	7.56
	Voltage at MPP	V <sub>MPP</sub> [V]	36.63	36.87	37.10	37.33	37.56

<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 • \*800 W/m<sup>2</sup>, NMOT, spectrum AM 1.5

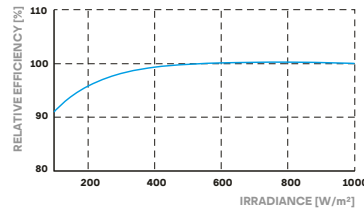
### Q CELLS PERFORMANCE WARRANTY



At least 97% of nominal power during first year. Thereafter max. 0.54% degradation per year. At least 92.0% of nominal power up to 10 years. At least 84% 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/m<sup>2</sup>)

### TEMPERATURE COEFFICIENTS

Temperature Coefficient of I <sub>SC</sub>	α [%/K]	+0.04	Temperature Coefficient of V <sub>OC</sub>	β [%/K]	-0.28
Temperature Coefficient of P <sub>MPP</sub>	γ [%/K]	-0.37	Nominal Module Operating Temperature	NMOT [°F]	109 ± 5.4 (43 ± 3°C)

## PROPERTIES FOR SYSTEM DESIGN

Maximum System Voltage V <sub>sys</sub>	[V]	1500 (IEC)/1500 (UL)	PV module classification	Class II
Maximum Series Fuse Rating	[A DC]	20	Fire Rating based on ANSI / UL 1703	C (IEC) / TYPE 1 (UL)
Max. Design Load, Push / Pull <sup>3</sup>	[lbs / ft <sup>2</sup> ]	75 (3600 Pa) / 33 (1600 Pa)	Permitted Module Temperature on Continuous Duty	-40°F up to +185°F (-40°C up to +85°C)
Max. Test Load, Push / Pull <sup>3</sup>	[lbs / ft <sup>2</sup> ]	113 (5400 Pa) / 50 (2400 Pa)		

<sup>3</sup> See Installation Manual

## QUALIFICATIONS AND CERTIFICATES

UL 1703, CE-compliant, IEC 61215:2016, IEC 61730:2016;  
U.S. Patent No. 9,893,215 (solar cells)



## PACKAGING INFORMATION

Number of Modules per Pallet	29
Number of Pallets per 53' Trailer	27
Number of Pallets per 40' HC-Container	22
Pallet Dimensions (L × W × H)	81.9 × 45.3 × 46.7 in (2080 × 1150 × 1190 mm)
Pallet Weight	1606 lbs (727 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.

**Hanwha Q CELLS America Inc.**

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