

powered by

**Q.ANTUM**

# Q.PEAK L-G5.0.G

## 365-380

ENDURING HIGH PERFORMANCE



### LOW LEVELISED COST OF ELECTRICITY

Higher yield per surface area, lower BOS costs, higher power classes, and an efficiency rate of up to 19.8%.



### 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 warranty<sup>1</sup>.

<sup>1</sup> See data sheet on rear for further information.



### THE IDEAL SOLUTION FOR:



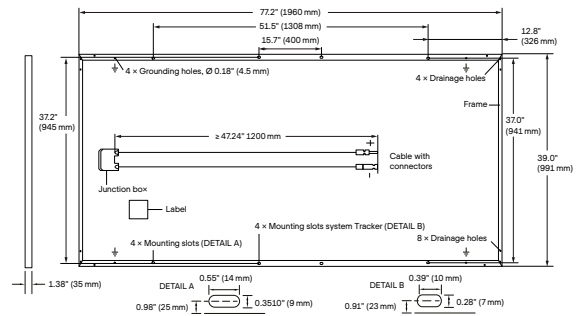
Ground-mounted solar power plants

Engineered in Germany

**Q CELLS**

## MECHANICAL SPECIFICATION

Format	77.2in × 39.0in × 1.38in (including frame) (1960mm × 991mm × 35mm)
Weight	49.6lbs (22.5kg) ±5%
Front Cover	0.13in (3.2mm) thermally pre-stressed glass with anti-reflection technology
Back Cover	Composite film
Frame	Anodized aluminum
Cell	6 × 12 monocrystalline Q.ANTUM solar cells
Junction Box	3.35-4.53in × 2.36-3.15in × 0.59-0.75in (85-115mm × 60-80mm × 15-20mm), ≥IP67, with bypass diodes
Cable	4mm <sup>2</sup> Solar cable; (+) ≥47.2in (1200mm), (-) ≥47.2in (1200mm)
Connector	Stäubli MC4-Evo2, Hanwha Q CELLS HQC4, Tongling TL-Cable01S-F, Amphenol UTX; IP68

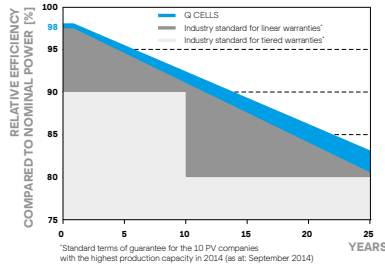


## ELECTRICAL CHARACTERISTICS

POWER CLASS			365	370	375	380
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC <sup>1</sup> (POWER TOLERANCE +5W / -0W)						
Minimum	Power at MPP <sup>1</sup>	P <sub>MPP</sub> [W]	365	370	375	380
	Short Circuit Current <sup>1</sup>	I <sub>SC</sub> [A]	9.75	9.81	9.86	9.92
	Open Circuit Voltage <sup>1</sup>	V <sub>OC</sub> [V]	48.16	48.45	48.73	49.02
	Current at MPP	I <sub>MPP</sub> [A]	9.27	9.35	9.42	9.50
	Voltage at MPP	V <sub>MPP</sub> [V]	39.38	39.59	39.80	40.01
	Efficiency <sup>1</sup>	η [%]	≥18.8	≥19.0	≥19.3	≥19.6
MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT <sup>2</sup>						
Minimum	Power at MPP	P <sub>MPP</sub> [W]	272.3	276.1	279.8	283.5
	Short Circuit Current	I <sub>SC</sub> [A]	7.85	7.90	7.95	7.99
	Open Circuit Voltage	V <sub>OC</sub> [V]	45.32	45.59	45.87	46.14
	Current at MPP	I <sub>MPP</sub> [A]	7.29	7.36	7.42	7.49
	Voltage at MPP	V <sub>MPP</sub> [V]	37.34	37.52	37.70	37.87

<sup>1</sup>Measurement tolerances P<sub>MPP</sub> ±3%; I<sub>SC</sub>; V<sub>OC</sub> ±5% at STC: 1000W/m<sup>2</sup>, 25±2°C, AM 1.5 according to IEC 60904-3 • 2800W/m<sup>2</sup>, NMOT, spectrum AM 1.5

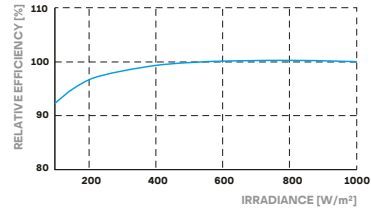
### Q CELLS PERFORMANCE WARRANTY



At least 98% of nominal power during first year. Thereafter max. 0.6% degradation per year. At least 92.6% of nominal power up to 10 years. At least 83.6% 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/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]	-0.39	Normal 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)	Safety Class	II
Maximum Series Fuse Rating	[A DC]	20	Fire Rating based on ANSI / UL 1703	C / TYPE 1
Max. Design Load, Push / Pull <sup>3</sup>	[lbs / ft <sup>2</sup> ]	75 (3600Pa) / 33 (1600Pa)	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 (5400Pa) / 50 (2400Pa)		

<sup>3</sup> See Installation Manual

## QUALIFICATIONS AND CERTIFICATES

UL 1703, CE-compliant,  
IEC 61215:2016, IEC 61730:2016, Application Class II



## PACKAGING INFORMATION

Number of Modules per Pallet	30
Number of Pallets per 40' HC-Container	22
Pallet Dimensions (L × W × H)	79.1 × 44.5 × 45.7in (2010 × 1130 × 1160mm)
Pallet Weight	1601lbs (726kg)

**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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