

# Q.PEAK L-G5.1 355-370

## Q.ANTUM SOLAR MODULE

The new solar module **Q.PEAK L-G5.1** with power classes up to 370 Wp is the strongest module of its type on the market globally. Powered by 72 **Q.ANTUM** solar cells **Q.PEAK L-G5.1** was specially designed for large solar power plants to reduce BOS costs. Only **Q CELLS** offers German engineering quality with our unique **Q CELLS Yield Security**.



### LOW ELECTRICITY GENERATION COSTS

Higher yield per surface area and lower BOS costs thanks to higher power classes and an efficiency rate of up to 18.8%.



### 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 Technology, 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).



### A RELIABLE INVESTMENT

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



### THE IDEAL SOLUTION FOR:

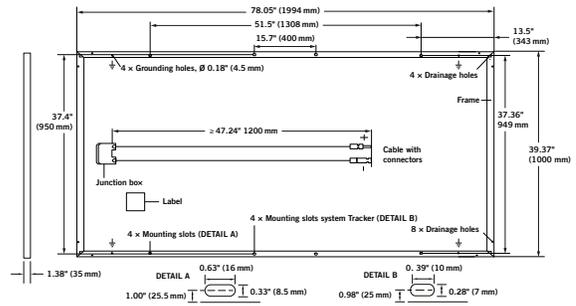


Engineered in **Germany**

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

## MECHANICAL SPECIFICATION

<b>Format</b>	78.5 in × 39.4 in × 1.38 in (including frame) (1994 mm × 1000 mm × 35 mm)
<b>Weight</b>	50.7 lbs (23 kg) ± 5 %
<b>Front Cover</b>	0.13 in (3.2 mm) thermally pre-stressed glass with anti-reflection technology
<b>Back Cover</b>	Composite film
<b>Frame</b>	Anodized aluminum
<b>Cell</b>	6 × 12 monocrystalline Q.ANTUM solar cells
<b>Junction box</b>	2.60-3.03 in × 3.54-4.53 in × 0.59-0.79 in (66-77 × 90-115 × 15-20 mm), Protection class ≥ IP67, with bypass diodes
<b>Cable</b>	4 mm <sup>2</sup> Solar cable; (+) ≥ 47.24 in (1200 mm), (-) ≥ 47.24 in (1200 mm)
<b>Connector</b>	Intermateable connector with H4, MC4, IP67 or IP68



## ELECTRICAL CHARACTERISTICS

POWER CLASS			355	360	365	370
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC <sup>1</sup> (POWER TOLERANCE +5W / -0W)						
Minimum	Power at MPP <sup>2</sup>	P <sub>MPP</sub> [W]	355	360	365	370
	Short Circuit Current*	I <sub>SC</sub> [A]	9.69	9.75	9.80	9.86
	Open Circuit Voltage*	V <sub>OC</sub> [V]	47.45	47.73	48.02	48.30
	Current at MPP*	I <sub>MPP</sub> [A]	9.16	9.24	9.31	9.39
	Voltage at MPP*	V <sub>MPP</sub> [V]	38.76	38.98	39.20	39.41
	Efficiency <sup>2</sup>	η [%]	≥ 17.8	≥ 18.1	≥ 18.3	≥ 18.6
MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NOC <sup>3</sup>						
Minimum	Power at MPP <sup>2</sup>	P <sub>MPP</sub> [W]	262.7	266.4	270.1	273.8
	Short Circuit Current*	I <sub>SC</sub> [A]	7.81	7.86	7.91	7.95
	Open Circuit Voltage*	V <sub>OC</sub> [V]	44.38	44.65	44.92	45.19
	Current at MPP*	I <sub>MPP</sub> [A]	7.19	7.26	7.32	7.39
	Voltage at MPP*	V <sub>MPP</sub> [V]	36.52	36.71	36.89	37.06

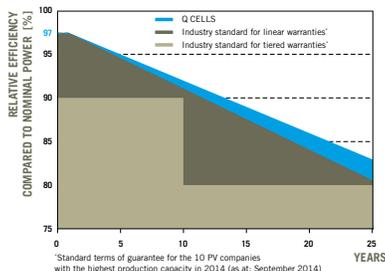
<sup>1</sup> 1000 W/m<sup>2</sup>, 25 °C, spectrum AM 1.5 G

<sup>2</sup> Measurement tolerances STC ± 3%; NOC ± 5%

<sup>3</sup> 800 W/m<sup>2</sup>, NOCT, spectrum AM 1.5 G

\* typical values, actual values may differ

## Q CELLS PERFORMANCE WARRANTY

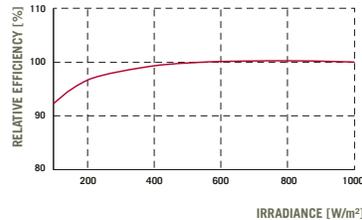


At least 97% of nominal power during first year. Thereafter max. 0.6% degradation per year.  
At least 92% of nominal power up to 10 years.  
At least 83% of nominal power up to 25 years.

All data within measurement tolerances. Full warranties in accordance with the warranty terms of the Q CELLS sales organization of your respective country.

\*Standard terms of guarantee for the 10 PV companies with the highest production capacity in 2014 (as at: September 2014)

## 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]	-0.39	Normal Operating Cell Temperature	NOCT	[°F]	113 ± 5.4 (45 ± 3 °C)

## PROPERTIES FOR SYSTEM DESIGN

Maximum System Voltage V <sub>sys</sub>	[V]	1000 (IEC) / 1000 (UL)	Safety Class	II
Maximum Series Fuse Rating	[A DC]	20	Fire Rating	C (IEC) / TYPE 1 (UL)
Design load, push (UL) <sup>2</sup>	[lbs/ft <sup>2</sup> ]	75 (3600 Pa)	Permitted module temperature on continuous duty	-40 °F up to +185 °F (-40 °C up to +85 °C)
Design load, pull (UL) <sup>2</sup>	[lbs/ft <sup>2</sup> ]	33 (1600 Pa)		<sup>2</sup> see installation manual

## QUALIFICATIONS AND CERTIFICATES

IEC 61215 (Ed. 2); IEC 61730 (Ed. 1), Application class A  
This data sheet complies with DIN EN 50380.



## PARTNER

**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.

300 Spectrum Center Drive, Suite 1250, Irvine, CA 92618, USA | TEL +1 949 748 59 96 | EMAIL inquiry@us.q-cells.com | WEB www.q-cells.us

Engineered in Germany

