

# Q.PEAK L-G5 355-370

## Q.ANTUM SOLAR MODULE

The Q.ANTUM solar module Q.PEAK L-G5 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 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 19.3%.



### 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 guarantee<sup>2</sup>.



### THE IDEAL SOLUTION FOR:

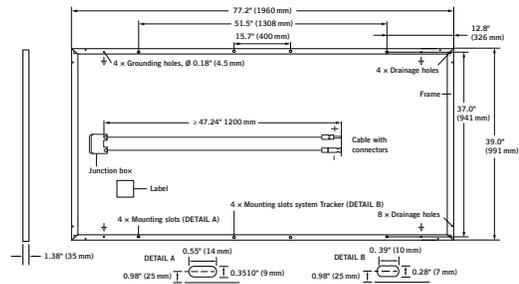


Ground-mounted solar power plants

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

## MECHANICAL SPECIFICATION

<b>Format</b>	77.2 in × 39.0 in × 1.38 in (including frame) (1960 mm × 991 mm × 35 mm)
<b>Weight</b>	49.6 lbs (22.5 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 × 0.59-0.75 in (66-77 mm × 90-115 mm × 15-20 mm), Protection class ≥ IP67, with bypass diodes
<b>Cable</b>	4 mm <sup>2</sup> Solar cable; (+) ≥ 47.2 in (1200 mm), (-) ≥ 47.2 in (1200 mm)
<b>Connector</b>	Intermateable connector with H4, MC4, IP67 or IP68



## ELECTRICAL CHARACTERISTICS

POWER CLASS		355	360	365	370	
<b>MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC<sup>1</sup> (POWER TOLERANCE +5 W / -0 W)</b>						
<b>Minimum</b>	<b>Power at MPP<sup>2</sup></b>	$P_{MPP}$ [W]	355	360	365	370
	<b>Short Circuit Current*</b>	$I_{SC}$ [A]	9.63	9.69	9.75	9.81
	<b>Open Circuit Voltage*</b>	$V_{OC}$ [V]	47.58	47.87	48.16	48.45
	<b>Current at MPP*</b>	$I_{MPP}$ [A]	9.12	9.19	9.27	9.35
	<b>Voltage at MPP*</b>	$V_{MPP}$ [V]	38.94	39.16	39.38	39.59
	<b>Efficiency<sup>2</sup></b>	$\eta$ [%]	≥ 18.3	≥ 18.5	≥ 18.8	≥ 19.0
<b>MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NOC<sup>3</sup></b>						
<b>Minimum</b>	<b>Power at MPP<sup>2</sup></b>	$P_{MPP}$ [W]	262.7	266.4	270.1	273.8
	<b>Short Circuit Current*</b>	$I_{SC}$ [A]	7.77	7.81	7.86	7.91
	<b>Open Circuit Voltage*</b>	$V_{OC}$ [V]	44.51	44.78	45.05	45.32
	<b>Current at MPP*</b>	$I_{MPP}$ [A]	7.16	7.23	7.29	7.36
	<b>Voltage at MPP*</b>	$V_{MPP}$ [V]	36.68	36.86	37.04	37.22

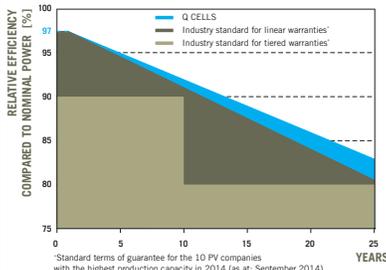
<sup>1</sup>1000 W/m<sup>2</sup>, 25 °C, spectrum AM 1.5 G

<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

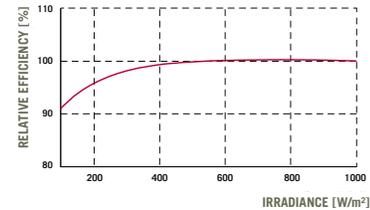


At least 97% of nominal power during first year. Thereafter max. 0.6% degradation per year. At least 92% of nominal power up to 10 years. At least 83% of nominal power up to 25 years.

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

<sup>1</sup>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

<b>Temperature Coefficient of <math>I_{SC}</math></b>	$\alpha$	[%/K]	+0.04	<b>Temperature Coefficient of <math>V_{OC}</math></b>	$\beta$	[%/K]	-0.28
<b>Temperature Coefficient of <math>P_{MPP}</math></b>	$\gamma$	[%/K]	-0.39	<b>Normal Operating Cell Temperature</b>	<b>NOCT</b>	[°F]	113 ± 5.4 (45 ± 3 °C)

## PROPERTIES FOR SYSTEM DESIGN

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

## QUALIFICATIONS AND CERTIFICATES

UL 1703; CE-compliant;  
IEC 61215 (Ed.2); IEC 61730 (Ed.1) application class A



## 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.

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