



# Q.PEAK L-G4.2 360-370

## Q.ANTUM SOLAR MODULE

The **Q.ANTUM** solar module **Q.PEAK L-G4.2** with power classes up to 370Wp is the strongest module of its type on the market globally. Powered by 72 **Q.ANTUM** solar cells **Q.PEAK L-G4.2** 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 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

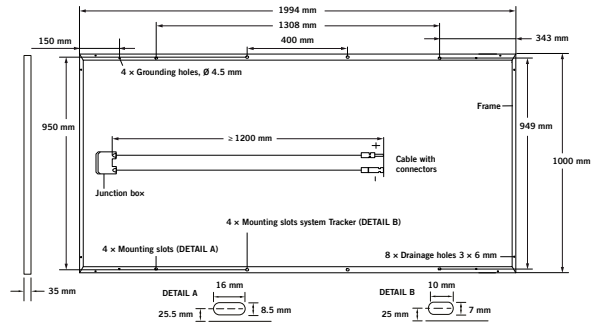
Engineered in **Germany**

<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>	1994 mm × 1000 mm × 35 mm (including frame)
<b>Weight</b>	23 kg
<b>Front Cover</b>	3.2 mm thermally pre-stressed glass with anti-reflection technology
<b>Back Cover</b>	Composite film
<b>Frame</b>	Anodised aluminium
<b>Cell</b>	6 × 12 monocrystalline Q.ANTUM solar cells
<b>Junction box</b>	85-115 × 60-80 × 15-19 mm, Protection class ≥ IP67, with bypass diodes
<b>Cable</b>	4 mm <sup>2</sup> Solar cable; (+) ≥ 1200 mm, (-) ≥ 1200 mm
<b>Connector</b>	Multi-Contact MC4-EVO 2 or Amphenol UTX; IP68

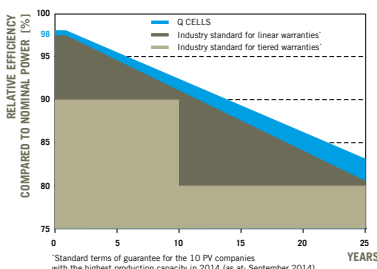


## ELECTRICAL CHARACTERISTICS

POWER CLASS		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>1</sup></b>	<b>P<sub>MPP</sub></b>	360	365	370
	<b>Short Circuit Current<sup>1</sup></b>	<b>I<sub>SC</sub></b>	9.82	9.88	9.94
	<b>Open Circuit Voltage<sup>1</sup></b>	<b>V<sub>OC</sub></b>	47.32	47.60	47.89
	<b>Current at MPP</b>	<b>I<sub>MPP</sub></b>	9.29	9.36	9.44
	<b>Voltage at MPP</b>	<b>V<sub>MPP</sub></b>	38.76	38.98	39.19
	<b>Efficiency<sup>1</sup></b>	<b>η</b>	≥ 18.1	≥ 18.3	≥ 18.6
<b>MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT<sup>2</sup></b>					
<b>Minimum</b>	<b>Power at MPP</b>	<b>P<sub>MPP</sub></b>	268.7	272.4	276.1
	<b>Short Circuit Current</b>	<b>I<sub>SC</sub></b>	7.91	7.96	8.01
	<b>Open Circuit Voltage</b>	<b>V<sub>OC</sub></b>	44.52	44.79	45.06
	<b>Current at MPP</b>	<b>I<sub>MPP</sub></b>	7.30	7.36	7.43
	<b>Voltage at MPP</b>	<b>V<sub>MPP</sub></b>	36.82	37.00	37.18

<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 G according to IEC 60904-3 - <sup>2</sup>800 W/m<sup>2</sup>, NMOT, spectrum AM 1.5 G

## Q CELLS PERFORMANCE WARRANTY



At least 98% of nominal power during first year. Thereafter max. 0.6% degradation per year.

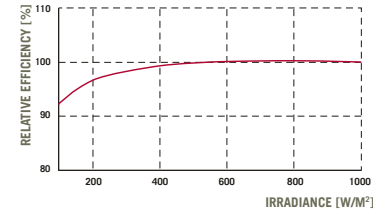
At least 92.6% of nominal power up to 10 years.

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.

<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 I<sub>SC</sub></b>	<b>α</b>	<b>[%/K]</b>	+0.04	<b>Temperature Coefficient of V<sub>OC</sub></b>	<b>β</b>	<b>[%/K]</b>	-0.28
<b>Temperature Coefficient of P<sub>MPP</sub></b>	<b>γ</b>	<b>[%/K]</b>	-0.39	<b>Normal Module Operating Temperature</b>	<b>NMOT</b>	<b>[°C]</b>	43 ± 3°C

## PROPERTIES FOR SYSTEM DESIGN

<b>Maximum System Voltage</b>	<b>V<sub>SYS</sub></b>	<b>[V]</b>	1500	<b>Safety Class</b>	II
<b>Maximum Reverse Current</b>	<b>I<sub>r</sub></b>	<b>[A]</b>	20	<b>Fire Rating</b>	C/TYP E 1
<b>Max. Design Load, Push / Pull</b>		<b>[Pa]</b>	3600/1600	<b>Permitted Module Temperature on Continuous Duty</b>	-40°C up to +85°C
<b>Max. Test Load, Push / Pull</b>		<b>[Pa]</b>	5400/2400		

## QUALIFICATIONS AND CERTIFICATES

IEC 61215:2016; IEC 61730:2016, Application class A  
This data sheet complies with DIN EN 50380.



## PACKAGING INFORMATION

<b>Number of Modules per Pallet</b>	29
<b>Number of Pallets per 40' High Cube Container</b>	22
<b>Number of Modules per 40' High Cube Container</b>	638

**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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Engineered in Germany

