

# Q.PEAK DUO L-G5.2 380-395

## Q.ANTUM SOLAR MODULE

The new high-performance module **Q.PEAK DUO L-G5.2** is the ideal solution for commercial and utility applications thanks to a combination of its innovative cell technology **Q.ANTUM** and cutting edge cell interconnection. This 1500V IEC/UL solar module with its 6 busbar cell design ensures superior yields with up to 395Wp while having a very low LCOE.



### LOW ELECTRICITY GENERATION COSTS

Higher yield per surface area, lower BOS costs, higher power classes, and an efficiency rate of up to 19.9%.



### 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:



Rooftop arrays on commercial/industrial buildings



Ground-mounted solar power plants

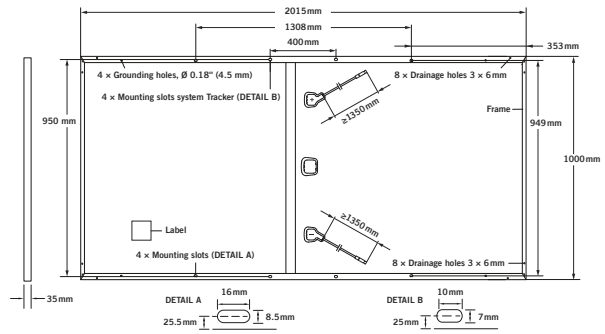
Engineered in **Germany**

<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>	2015mm × 1000mm × 35mm (including frame)
<b>Weight</b>	23.5 kg
<b>Front Cover</b>	3.2mm thermally pre-stressed glass with anti-reflection technology
<b>Back Cover</b>	Composite film
<b>Frame</b>	Anodised aluminium
<b>Cell</b>	6 × 24 monocrystalline Q.ANTUM solar half cells
<b>Junction box</b>	70-85mm × 50-70mm × 13-21mm Protection class IP67, with bypass diodes
<b>Cable</b>	4mm <sup>2</sup> Solar cable; (+) ≥ 1350mm, (-) ≥ 1350mm
<b>Connector</b>	Multi-Contact MC4-EVO2, JMTHY PV-JM601A, IP68 or Renhe 05-8, IP67

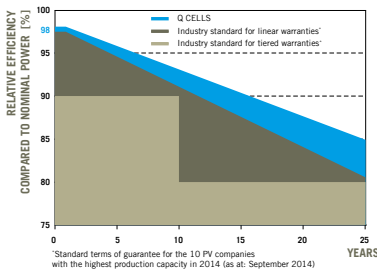


## ELECTRICAL CHARACTERISTICS

POWER CLASS			380	385	390	395
<b>MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC<sup>1</sup> (POWER TOLERANCE +5W / -0W)</b>						
<b>Minimum</b>	<b>Power at MPP<sup>1</sup></b>	<b>P<sub>MPP</sub></b> [W]	380	385	390	395
	<b>Short Circuit Current<sup>1</sup></b>	<b>I<sub>SC</sub></b> [A]	10.05	10.10	10.14	10.19
	<b>Open Circuit Voltage<sup>1</sup></b>	<b>V<sub>OC</sub></b> [V]	47.95	48.21	48.48	48.74
	<b>Current at MPP</b>	<b>I<sub>MPP</sub></b> [A]	9.57	9.61	9.66	9.70
	<b>Voltage at MPP</b>	<b>V<sub>MPP</sub></b> [V]	39.71	40.05	40.38	40.71
	<b>Efficiency<sup>1</sup></b>	<b>η</b> [%]	≥ 18.9	≥ 19.1	≥ 19.4	≥ 19.6
<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> [W]	283.9	287.6	291.3	295.1
	<b>Short Circuit Current</b>	<b>I<sub>SC</sub></b> [A]	8.10	8.14	8.17	8.21
	<b>Open Circuit Voltage</b>	<b>V<sub>OC</sub></b> [V]	45.12	45.37	45.62	45.87
	<b>Current at MPP</b>	<b>I<sub>MPP</sub></b> [A]	7.53	7.57	7.60	7.64
	<b>Voltage at MPP</b>	<b>V<sub>MPP</sub></b> [V]	37.69	38.01	38.33	38.64

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

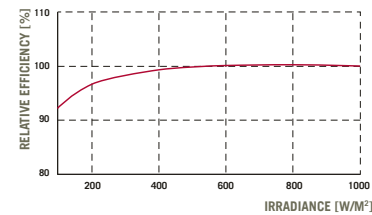
## Q CELLS PERFORMANCE WARRANTY



At least 98% of nominal power during first year. Thereafter max. 0.54% degradation per year. At least 93.1% of nominal power up to 10 years. At least 85% 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.

## 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

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

## PROPERTIES FOR SYSTEM DESIGN

<b>Maximum System Voltage</b>	<b>V<sub>sys</sub></b> [V]	1500 (IEC) / 1500 (UL)	<b>Safety Class</b>	II
<b>Maximum Reverse Current</b>	<b>I<sub>R</sub></b> [A]	20	<b>Fire Rating</b>	C / TYPE 1
<b>Max. Design Load, Push / Pull</b>	[Pa]	3600/1600	<b>Permitted Module Temperature on Continuous Duty</b>	-40°C up to +85°C
<b>Max. Test Load, Push / Pull</b>	[Pa]	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.

Made in Korea

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