

# Q.PEAK DUO L-G5.3 380-395

## Q.ANTUM SOLAR MODULE

The new high-performance module **Q.PEAK DUO L-G5.3** 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<sup>TM</sup>.



### EXTREME WEATHER RATING

High-tech aluminum alloy frame, certified for high snow (5400Pa) and wind loads (2400Pa).



### 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



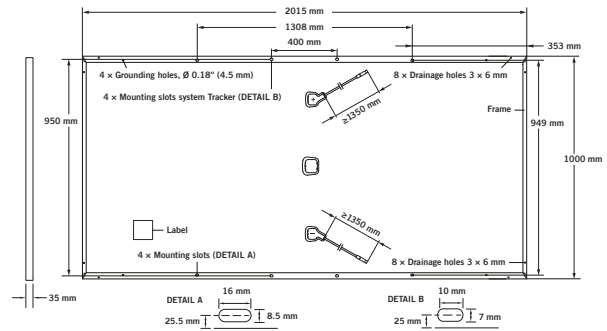
Ground-mounted solar power plants

<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>	2015 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 × 24 monocrystalline Q.ANTUM solar half cells
<b>Junction box</b>	70-85 mm × 50-70 mm × 13-21 mm Protection class IP67, with bypass diodes
<b>Cable</b>	4 mm <sup>2</sup> Solar cable; (+) ≥ 1350 mm, (-) ≥ 1350 mm
<b>Connector</b>	Multi-Contact MC4-EVO2, JMTHY PV-JM601A, IP68 or Renhe 05-8, IP67

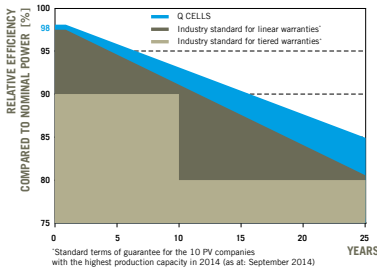


## ELECTRICAL CHARACTERISTICS

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>2</sup></b>	<b>P<sub>MPP</sub></b> [W]	380	385	390	395
	<b>Short Circuit Current*</b>	<b>I<sub>SC</sub></b> [A]	10.05	10.10	10.14	10.19
	<b>Open Circuit Voltage*</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>2</sup></b>	<b>η</b> [%]	≥ 18.9	≥ 19.1	≥ 19.4	≥ 19.6
<b>MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NOC<sup>3</sup></b>						
<b>Minimum</b>	<b>Power at MPP<sup>2</sup></b>	<b>P<sub>MPP</sub></b> [W]	281.6	285.3	289.0	292.7
	<b>Short Circuit Current*</b>	<b>I<sub>SC</sub></b> [A]	8.11	8.14	8.18	8.22
	<b>Open Circuit Voltage*</b>	<b>V<sub>OC</sub></b> [V]	44.85	45.10	45.35	45.60
	<b>Current at MPP*</b>	<b>I<sub>MPP</sub></b> [A]	7.53	7.56	7.60	7.63
	<b>Voltage at MPP*</b>	<b>V<sub>MPP</sub></b> [V]	37.41	37.73	38.04	38.35

<sup>1</sup>1000W/m<sup>2</sup>, 25 °C, spectrum AM 1.5G    <sup>2</sup>Measurement tolerances STC ±3%; NOC ±5%    <sup>3</sup>800W/m<sup>2</sup>, NOCT, spectrum AM 1.5G    \*typical values, actual values may differ

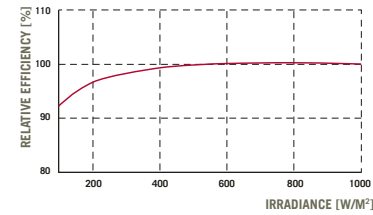
## Q CELLS PERFORMANCE WARRANTY



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 Operating Cell Temperature</b>	<b>NOCT</b> [°C]	45 ± 3

## PROPERTIES FOR SYSTEM DESIGN

<b>Maximum System Voltage</b>	<b>V<sub>sys</sub></b> [V]	1500	<b>Safety Class</b>	II
<b>Maximum Reverse Current</b>	<b>I<sub>r</sub></b> [A]	20	<b>Fire Rating</b>	C
<b>Push/Pull Load (Test-load in accordance with IEC 61215)</b>	[Pa]	5400/2400	<b>Permitted Module Temperature On Continuous Duty</b>	-40 °C up to +85 °C

## 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.

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**Q CELLS**