



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 395 Wp 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>.



<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.

THE IDEAL SOLUTION FOR:

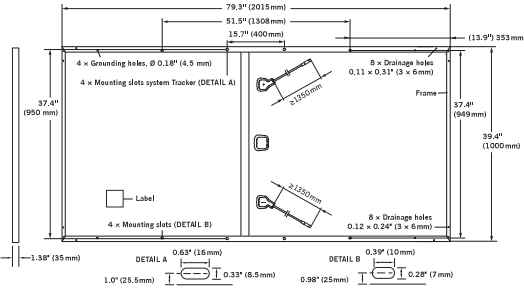


Engineered in **Germany**



MECHANICAL SPECIFICATION

<b>Format</b>	79.3 in × 39.4 in × 1.38 in (including frame) (2015 mm × 1000 mm × 35 mm)
<b>Weight</b>	51.8 lbs (23.5 kg)
<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 × 24 monocrystalline Q.ANTUM solar half-cells
<b>Junction box</b>	2.76-3.35 in × 1.97-2.76 in × 0.51-0.83 in (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; (+) ≥ 53.1 in (1350 mm), (–) ≥ 53.1 in (1350 mm)
<b>Connector</b>	Multi-Contact MC4-EVO2, JMTHY PV-JM601A, IP68 or Renhe 05-6, IP67

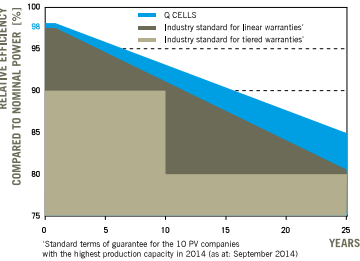


ELECTRICAL CHARACTERISTICS

POWER CLASS	380	385	390	395
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC <sup>1</sup> (POWER TOLERANCE +5 W / –0 W)				
<b>Power at MPP<sup>1</sup></b>	<b>P<sub>MPP</sub></b> [W]	380	385	390
<b>Short Circuit Current<sup>1</sup></b>	<b>I<sub>SC</sub></b> [A]	10.05	10.10	10.14
<b>Open Circuit Voltage<sup>1</sup></b>	<b>V<sub>OC</sub></b> [V]	47.95	48.21	48.48
<b>Current at MPP</b>	<b>I<sub>MPP</sub></b> [A]	9.57	9.61	9.66
<b>Voltage at MPP</b>	<b>V<sub>MPP</sub></b> [V]	39.71	40.05	40.38
<b>Efficiency<sup>1</sup></b>	<b>η</b> [%]	≥ 18.9	≥ 19.1	≥ 19.4
MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT <sup>2</sup>				
<b>Power at MPP</b>	<b>P<sub>MPP</sub></b> [W]	283.9	287.6	291.3
<b>Short Circuit Current</b>	<b>I<sub>SC</sub></b> [A]	8.10	8.14	8.17
<b>Open Circuit Voltage</b>	<b>V<sub>OC</sub></b> [V]	45.12	45.37	45.62
<b>Current at MPP</b>	<b>I<sub>MPP</sub></b> [A]	7.53	7.57	7.60
<b>Voltage at MPP</b>	<b>V<sub>MPP</sub></b> [V]	37.69	38.01	38.33

<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 1.5G according to IEC 60904-3 · 2800 W/m<sup>2</sup>, NMOT, spectrum AM 1.5G

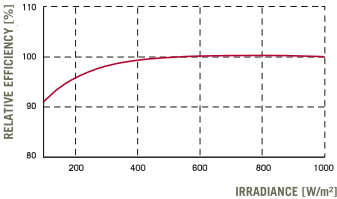
Q CELLS PERFORMANCE WARRANTY



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, 1000 W/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 Module Temperature</b>	<b>NMOT</b> [°F]	109 ± 5.4 (43 ± 3 °C)

PROPERTIES FOR SYSTEM DESIGN

<b>Maximum System Voltage V<sub>sys</sub></b>	[V]	1500 (IEC) / 1500 (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>Max. Design Load, Push / Pull (UL)<sup>2</sup></b>	[lbs/ft <sup>2</sup> ]	75 (3600 Pa) / 33 (1600 Pa)	<b>Permitted module temperature on continuous duty</b>	–40 °F up to +185 °F (–40 °C up to +85 °C)
<b>Max. Test Load, Push / Pull (UL)<sup>2</sup></b>	[lbs/ft <sup>2</sup> ]	113 (5400 Pa) / 50 (2400 Pa)	<sup>2</sup> see installation manual	

QUALIFICATIONS AND CERTIFICATES

UL 1703; CE-compliant;  
IEC 61215:2016, IEC 61730:2016 application class A



PACKAGING INFORMATION

<b>Number of Modules per Pallet</b>	29
<b>Number of Pallets per 53' Trailer</b>	26
<b>Number of Pallets per 40' High Cube Container</b>	22
<b>Pallet Dimensions ( L × W × H )</b>	81.9 in × 45.3 in × 46.7 in (2080 mm × 1150 mm × 1185 mm)
<b>Pallet Weight</b>	1635 lbs (742 kg)

**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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