

Q.PEAK DUO L-G5.2 380-390

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 390 Wp while having a very low LCOE. **Q.PEAK DUO L-G5.2** is ideal for ground-mounted solar power plants.



LOW ELECTRICITY GENERATION COSTS

Higher yield per surface area, lower BOS costs, higher power classes, and an efficiency rate of up to 19.6 %.



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 Technology¹, 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).



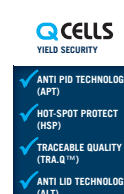
A RELIABLE INVESTMENT

Inclusive 12-year product warranty and 25-year linear performance guarantee².



SIMPLER INSTALLATION

Custom cable lengths connect to cableless junction box after mounting, reducing labour effort and minimizing resistive losses³.



THE IDEAL SOLUTION FOR:



Rooftop arrays on commercial/industrial buildings



Ground-mounted solar power plants

¹ APT test conditions according to IEC/TS 62804-1:2015, method B (-1500V, 168h)

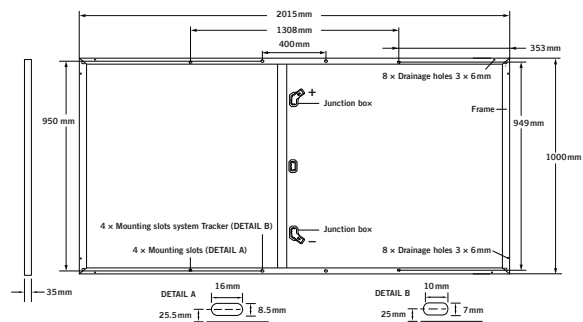
² See data sheet on rear for further information.

³ See data sheet on rear for further information. Cable length depends on the product version.

MECHANICAL SPECIFICATION

Format	2015mm × 1000mm × 35mm (including frame)
Weight	23.5 kg
Front Cover	3.2mm thermally pre-stressed glass with anti-reflection technology
Back Cover	Composite film
Frame	Anodised aluminium
Cell	6 × 24 monocrystalline Q.ANTUM solar cells
Junction box	61-71mm × 41-50mm × 13-21mm, decentralized, IP67
Cable	4mm ² Solar cable; one ≥400mm or two ≥300mm cables*
Connector	IP67 or IP68

* depending on product version



ELECTRICAL CHARACTERISTICS

POWER CLASS			380	385	390
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC ¹ (POWER TOLERANCE +5W /- 0W)					
Minimum	Power at MPP ²	P _{MPP}	380	385	390
	Short Circuit Current*	I _{SC}	10.05	10.10	10.14
	Open Circuit Voltage*	V _{OC}	47.95	48.21	48.48
	Current at MPP*	I _{MPP}	9.57	9.61	9.66
	Voltage at MPP*	V _{MPP}	39.71	40.05	40.38
	Efficiency ²	η	≥ 18.9	≥ 19.1	≥ 19.4
MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NOC ³					
Minimum	Power at MPP ²	P _{MPP}	281.6	285.3	289.0
	Short Circuit Current*	I _{SC}	8.11	8.14	8.18
	Open Circuit Voltage*	V _{OC}	44.85	45.10	45.35
	Current at MPP*	I _{MPP}	7.53	7.56	7.60
	Voltage at MPP*	V _{MPP}	37.41	37.73	38.04

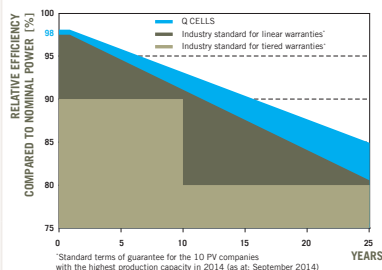
¹1000W/m², 25 °C, spectrum AM 1.5G

²Measurement tolerances STC ±3%; NOC ±5%

³800W/m², NOCT, spectrum AM 1.5G

* typical values, actual values may differ

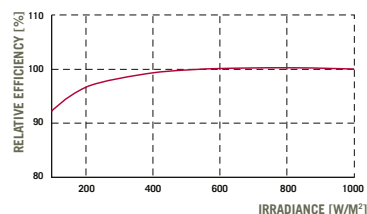
Q CELLS PERFORMANCE WARRANTY



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/m²).

TEMPERATURE COEFFICIENTS

Temperature Coefficient of I _{SC}	α	[%/K]	+0.04	Temperature Coefficient of V _{OC}	β	[%/K]	-0.28
Temperature Coefficient of P _{MPP}	γ	[%/K]	-0.37	Normal Operating Cell Temperature	NOCT	[°C]	45

PROPERTIES FOR SYSTEM DESIGN

Maximum System Voltage**	V _{SYS}	[V]	1500 (IEC) / 1500 (UL)	Safety Class	II
Maximum Reverse Current	I _R	[A]	20	Fire Rating	C / TYPE 1
Push/Pull Load (Test-load in accordance with IEC 61215)	[Pa]		5400/2400	Permitted Module Temperature On Continuous Duty	-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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Engineered in Germany

