

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 Technology¹, Hot-Spot Protect and Traceable Quality Tra.Q™.



EXTREME WEATHER RATING

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



A RELIABLE INVESTMENT

Inclusive 12-year product warranty and 25-year linear performance warranty².



THE IDEAL SOLUTION FOR:



Rooftop arrays on commercial/industrial buildings



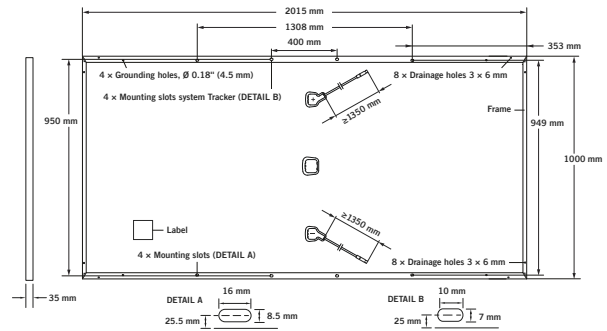
Ground-mounted solar power plants

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

² See data sheet on rear for further information.

MECHANICAL SPECIFICATION

Format	2015 mm × 1000 mm × 35 mm (including frame)
Weight	23 kg
Front Cover	3.2 mm thermally pre-stressed glass with anti-reflection technology
Back Cover	Composite film
Frame	Anodised aluminium
Cell	6 × 24 monocrystalline Q.ANTUM solar half cells
Junction box	70-85 mm × 50-70 mm × 13-21 mm Protection class IP67, with bypass diodes
Cable	4 mm ² Solar cable; (+) ≥ 1350 mm, (-) ≥ 1350 mm
Connector	Multi-Contact MC4-EVO2, JMTHY PV-JM601A, IP68 or Renhe 05-8, IP67

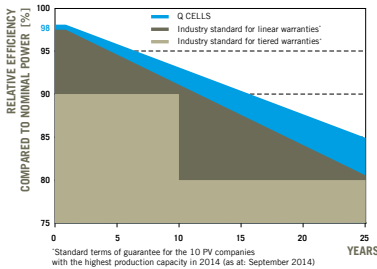


ELECTRICAL CHARACTERISTICS

POWER CLASS		380	385	390	395	
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC¹ (POWER TOLERANCE +5W / -0W)						
Minimum	Power at MPP²	P_{MPP} [W]	380	385	390	395
	Short Circuit Current*	I_{SC} [A]	10.05	10.10	10.14	10.19
	Open Circuit Voltage*	V_{OC} [V]	47.95	48.21	48.48	48.74
	Current at MPP*	I_{MPP} [A]	9.57	9.61	9.66	9.70
	Voltage at MPP*	V_{MPP} [V]	39.71	40.05	40.38	40.71
	Efficiency²	η [%]	≥ 18.9	≥ 19.1	≥ 19.4	≥ 19.6
MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NOC³						
Minimum	Power at MPP²	P_{MPP} [W]	281.6	285.3	289.0	292.7
	Short Circuit Current*	I_{SC} [A]	8.11	8.14	8.18	8.22
	Open Circuit Voltage*	V_{OC} [V]	44.85	45.10	45.35	45.60
	Current at MPP*	I_{MPP} [A]	7.53	7.56	7.60	7.63
	Voltage at MPP*	V_{MPP} [V]	37.41	37.73	38.04	38.35

¹1000 W/m², 25 °C, spectrum AM 1.5G ²Measurement tolerances STC ±3%; NOC ±5% ³800 W/m², NOCT, spectrum AM 1.5G * typical values, actual values may differ

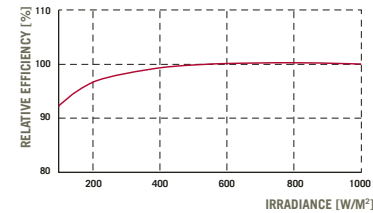
Q CELLS PERFORMANCE WARRANTY



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, 1000 W/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 ± 3

PROPERTIES FOR SYSTEM DESIGN

Maximum System Voltage	V_{sys} [V]	1500	Safety Class	II
Maximum Reverse Current	I_r [A]	20	Fire Rating	C
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

Q CELLS