

Q.PLUS L-G4.2 340-350

Q.ANTUM SOLAR MODULE

The **Q.ANTUM** solar module **Q.PLUS L-G4.2** is the strongest module of its type on the market globally. Powered by 72 Q CELLS solar cells **Q.PLUS L-G4.2** was specially designed for large solar power plants to reduce BOS costs. Only Q CELLS offers German engineering quality with our unique Yield Security.



Q.ANTUM TECHNOLOGY: LOW LEVELIZED COST OF ELECTRICITY

Higher yield per surface area and lower BOS costs thanks to higher power classes and an efficiency rate of up to 17.8%.



INNOVATIVE ALL-WEATHER TECHNOLOGY

Optimal yields, whatever the weather with excellent low-light and temperature behaviour.



ENDURING HIGH PERFORMANCE

Long-term yield security with Anti PID Technology¹, Hot-Spot Protect and Traceable Quality Tra.Q™.



EXTREME WEATHER RATING

High-tech aluminium 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 warranty².



THE IDEAL SOLUTION FOR:



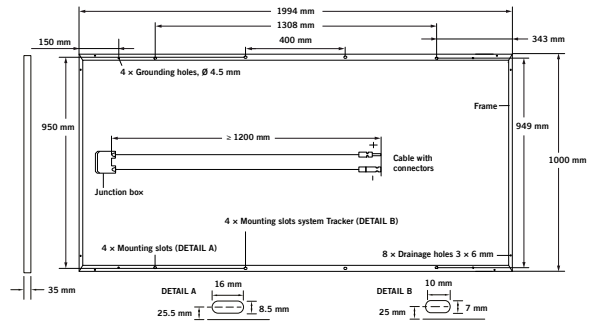
Engineered in **Germany**

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	1994 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 × 12 Q.ANTUM solar cells
Junction box	85-115 × 60-80 × 15-19 mm, Protection class ≥ IP67, with bypass diodes
Cable	4 mm ² Solar cable; (+) ≥ 1200 mm, ≥ (-) 1200 mm
Connector	Multi-Contact MC4-EVO2, JMTHY PV-JM601A or Amphenol UTX; IP68

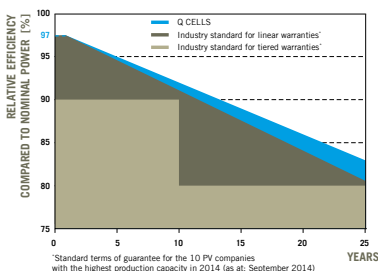


ELECTRICAL CHARACTERISTICS

POWER CLASS		340	345	350	
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC ¹ (POWER TOLERANCE +5 W / -0 W)					
Minimum	Power at MPP¹	P_{MPP}	340	345	350
	Short Circuit Current¹	I_{SC}	9.54	9.59	9.64
	Open Circuit Voltage¹	V_{OC}	46.34	46.58	46.82
	Current at MPP	I_{MPP}	9.03	9.10	9.16
	Voltage at MPP	V_{MPP}	37.65	37.93	38.20
	Efficiency¹	η	≥ 17.1	≥ 17.3	≥ 17.6
MINIMUM PERFORMANCE AT NORMAL MODULE OPERATING TEMPERATURE, NMOT ²					
Minimum	Power at MPP	P_{MPP}	253.4	257.1	260.9
	Short Circuit Current	I_{SC}	7.69	7.73	7.77
	Open Circuit Voltage	V_{OC}	43.51	43.74	43.97
	Current at MPP	I_{MPP}	7.10	7.15	7.21
	Voltage at MPP	V_{MPP}	35.71	35.95	36.19

¹Measurement tolerances P_{MPP} ± 3%; I_{SC}, V_{OC} ± 5% at STC: 1000 W/m², 25 ± 2 °C, AM 1.5 G according to IEC 60904-3 - ²800 W/m², NMOT, spectrum AM 1.5 G

Q CELLS PERFORMANCE WARRANTY

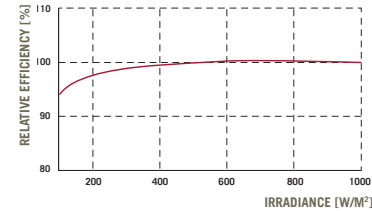


At least 97% of nominal power during first year. Thereafter max. 0.6% degradation per year.
At least 92% of nominal power up to 10 years.
At least 83% of nominal power up to 25 years.

All data within measurement tolerances. Full warranties in accordance with the warranty terms of the Q CELLS sales organisation of your respective country.

¹Standard terms of guarantee for the 10 PV companies with the highest production capacity in 2014 (as at September 2014)

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]	-0.29
Temperature Coefficient of P_{MPP}	γ	[%/K]	-0.40	Normal Module Operating Temperature	NMOT	[°C]	43 ± 3 °C

PROPERTIES FOR SYSTEM DESIGN

Maximum System Voltage	V_{sys}	[V]	1500	Safety Class	II
Maximum Reverse Current	I_R	[A]	20	Fire Rating	C / TYPE 1
Max. Design Load, Push / Pull		[Pa]	3600/1600	Permitted Module Temperature On Continuous Duty	-40 °C up to +85 °C
Max. Test Load, Push / Pull		[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

Number of Modules per Pallet	29
Number of Pallets per 40' High Cube Container	22
Number of Modules per 40' High Cube Container	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.

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