

The new high-performance module Q.PLUS-G4 is the ideal solution for all applications thanks to its innovative cell technology Q.ANTUM. The world-record cell design was developed to achieve the best performance under real conditions — even with low radiation intensity and on clear, hot summer days.



LOW ELECTRICITY GENERATION COSTS

Higher yield per surface area and lower BOS costs thanks to higher power classes and an efficiency rate of up to 17.1 %.



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-PID Technology¹, Hot-Spot-Protect and Traceable Quality $Tra.Q^{TM}$.



LIGHT-WEIGHT QUALITY FRAME

High-tech aluminum alloy frame, certified for high snow (5400 Pa) and wind loads (4000 Pa).



MAXIMUM COST REDUCTIONS

Up to 10 % lower logistics costs due to higher module capacity per box.



SAFE ELECTRONICS

Protection against short circuits and thermally induced power losses due to breathable junction box and welded cables.



A RELIABLE INVESTMENT

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

THE IDEAL SOLUTION FOR:

















- APT test conditions: Cells at -1000 V against grounded, with conductive metal foil covered module surface, 25 °C, 168 h
- See data sheet on rear for further information.



Back Cover Composite film

Weight

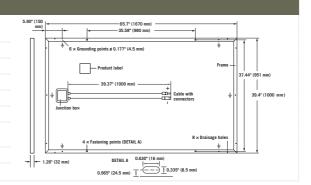
Frame Black anodised aluminum

Cell 6 x 10 Q.ANTUM dark solar cells Junction box

4.33 in \times 4.53 in \times 0.9 in (110 mm \times 115 mm \times 23 mm), Protection class IP67, with bypass diodes

Cable 4 mm² Solar cable; (+) \geq 39.37 in (1000 mm), (-) \geq 39.37 in (1000 mm)

Tyco, Solarlok PV4, IP68 Connector



EL	ECTRICAL CHARACTERISTICS							
PO	WER CLASS			270	275	280		
MII	NIMUM PERFORMANCE AT STANDARD TES	STING CONDITIONS, ST	TC1 (POWER 1	OLERANCE +5 W / -0 W)				
Minimum	Power at MPP ²	\mathbf{P}_{MPP}	[W]	270	275	280		
	Short Circuit Current*	I _{sc}	[A]	9.43	9.49	9.55		
	Open Circuit Voltage*	V _{oc}	[V]	38.65	38.90	39.16		
	Current at MPP*	I _{MPP}	[A]	8.84	8.91	8.99		
	Voltage at MPP*	V_{MPP}	[V]	30.53	30.85	31.16		
	Efficiency ²	η	[%]	≥16.17	≥16.47	≥16.77		
MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NOC ³								
	Power at MPP ²	\mathbf{P}_{MPP}	[W]	200.2	203.9	207.6		
Minimum	Short Circuit Current*	I _{sc}	[A]	7.60	7.65	7.70		
	Open Circuit Voltage*	V _{oc}	[V]	36.06	36.30	36.55		
	Current at MPP*	I _{MPP}	[A]	6.93	6.99	7.05		
	Voltage at MPP*	\mathbf{V}_{MPP}	[V]	28.89	29.17	29.45		
1100	00 W/m² 25 °C spectrum AM 1 5 G 2 Measu	romant talaranaas STC .	2 % NOC + 5	% 3 800 W/m² NOCT spectrum AM 1 5 G	* typical values, actual values may differ			

11000 W/m2, 25 °C, spectrum AM 1.5 G ² Measurement tolerances STC ±3 %; NOC ±5 % ³ 800 W/m², NOCT, spectrum AM 1.5 G typical values, actual values may differ

Q CELLS PERFORMANCE WARRANTY

RELATIVE EFFICIENCY D NOMINAL POWER [%] COMPARED TO 15 YEARS

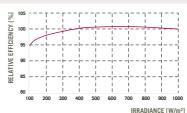
At least 97 % of nominal power during first year. Thereafter max. 0.6 % degradation per year.

At least 92% of nominal power after 10 years.

At least 83% of nominal power after 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.

PERFORMANCE AT LOW IRRADIANCE



The typical change in module efficiency at an irradiance of 200 W/m² in relation to 1000 W/m2 (both at 25 °C and AM 1.5 G spectrum) is -1,5 % (relative).

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 Operating Cell Temperature	NOCT	[°C]	113 ± 5.4 (45 ± 3 °C)

PROPERTIES FOR SYSTEM DESIGN								
Maximum System Voltage V _{sys}	[V]	1000 (IEC) / 1000 (UL)	Safety Class	II				
Maximum Series Fuse Rating	[A DC]	20	Fire Rating	C / TYPE 1				
Max Load (UL) ²	[lbs/ft²]	75 (3600 Pa)	Permitted module temperature on continuous duty	-40° F up to $+185^{\circ}$ F (-40° C up to $+85^{\circ}$ C)				
Load Rating (UL) ²	[lbs/ft²]	55.6 (2666 Pa)	² see installation manual					

QUALIFICATIONS AND CERTIFICATES PACKAGING INFORMATION UL 1703; VDE Quality Tested; CE-compliant; 32 Number of Modules per Pallet IEC 61215 (Ed.2); IEC 61730 (Ed.1) application class A 32 Number of Pallets per 53' Container 26 Number of Pallets per 40' Container Pallet Dimensions (L×W×H) $68.7\,\text{in}\times45.1\,\text{in}\times46.1\,\text{in}$ $(1745\times1145\times1170~\text{mm})$ Pallet Weight 1435 lb (651 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.