

The new high-performance module Q.PLUS-G4.3 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.



Q.ANTUM TECHNOLOGY: LOW LEVELIZED COST OF ELECTRICITY

Higher yield per surface area and lower BOS costs and 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 behaviour.



ENDURING HIGH PERFORMANCE

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



EXTREME WEATHER RATING

High-tech aluminium 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.



A RELIABLE INVESTMENT

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











¹ APT test conditions: Cells at -1500V against grounded, with conductive

25°C, 168 h
² See data sheet on rear for further information.

metal foil covered module surface,

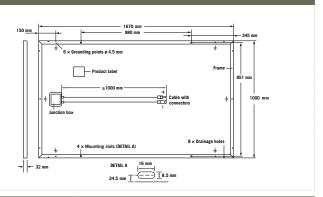
THE IDEAL SOLUTION FOR:











EL	ECTRICAL CHARACTERISTIC	S			
P0	WER CLASS		270	275	280
MI	NIMUM PERFORMANCE AT STANDAR	TEST CONDITIONS, STC1 (POWER TOL	ERANCE +5 W / -0 W)		
	Power at MPP ²	P_{MPP}	270	275	280
	Short Circuit Current*	I _{sc}	9.29	9.35	9.41
mun	Open Circuit Voltage*	V _{oc}	38.46	38.72	38.97
Minimum	Current at MPP*	I _{MPP}	8.70	8.77	8.84
-	Voltage at MPP*	V _{MPP}	31.04	31.36	31.67
	Efficiency ²	η	≥16.2	≥16.5	≥16.8
MI	MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NOC ³				
	Power at MPP ²	P_{MPP}	199.6	203.3	207.0
트	Short Circuit Current*	I _{sc}	7.49	7.54	7.58
Minimum	Open Circuit Voltage*	V _{oc}	35.89	36.13	36.37
Ξ	Current at MPP*	I _{MPP}	6.81	6.87	6.93
	Voltage at MPP*	V _{MPP}	29.30	29.59	29.87

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

COMPARED TO NOMINAL POWER [%] 25 YEARS

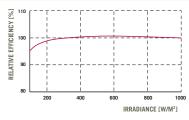
At least 97 % of nominal power during first year. Thereafter max. 0.6% degra-

dation 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.

PERFORMANCE AT LOW IRRADIANCE



Typical module performance under low irradiance conditions in comparison to STC conditions (25°C, 1000 W/m²).

TEMPERATURE	COFFFICIENTS

Temperature Coefficient of I _{sc}	α	[%/K]	+0.04	Temperature Coefficient of \mathbf{V}_{oc}	β	[%/K]	-0.29
Temperature Coefficient of P _{MPP}	γ	[%/K]	-0.40	Normal Operating Cell Temperature	NOCT	[°C]	45

PROPERTIES FOR SYSTEM DESIGN					
Maximum System Voltage	\mathbf{V}_{sys}	[V]	1000	Safety Class	II
Maximum Reverse Current	I _R	[A]	20	Fire Rating	С
Wind/Snow Load (Test-load in accordance with IEC 61215)		[Pa]	4000/5400	Permitted Module Temperature On Continuous Duty	-40°C up to +85°C

QUALIFICATIONS AND CERTIFICATES

PARTNER

VDE Quality Tested, IEC 61215 (Ed. 2); IEC 61730 (Ed. 1), Application class A This data sheet complies with DIN EN 50380.





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.

Hanwha Q CELLS GmbH

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