

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 17.7 %.



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 Technology 1 , Hot-Spot Protect and Traceable Quality Tra.Q $^{\text{TM}}$.



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.











- APT test conditions according to IEC/TS 62804-1:2015, method B (-1500V, 168h)
- See data sheet on rear for further information.

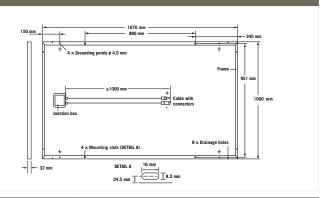
THE IDEAL SOLUTION FOR:











ELECTRICAL CHARACTERISTICS						
P0	WER CLASS		280	285	290	
MI	NIMUM PERFORMANCE AT STANDAR	D TEST CONDITIONS, STC1 (POWER TOL	ERANCE +5 W / -0 W)			
	Power at MPP ¹	P _{MPP}	280	285	290	
_	Short Circuit Current ¹	I _{sc}	9.41	9.46	9.52	
mun	Open Circuit Voltage ¹	V _{oc}	38.97	39.22	39.48	
Minimum	Current at MPP	I _{MPP}	8.84	8.91	8.98	
Ι-	Voltage at MPP	\mathbf{V}_{MPP}	31.67	31.99	32.29	
	Efficiency ¹	η	≥16.8	≥17.1	≥17.4	
MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT ²						
	Power at MPP	P _{MPP}	208.8	212.6	216.3	
Minimum	Short Circuit Current	I _{sc}	7.58	7.63	7.67	
	Open Circuit Voltage	V _{oc}	36.59	36.83	37.07	
	Current at MPP	I _{MPP}	6.93	6.99	7.05	
	Voltage at MPP	V _{MPP}	30.12	30.40	30.68	

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

Q CELLS PERFORMANCE WARRANTY

To be a standard for linear warranties indicastry standard for linear wa

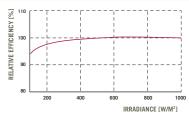
At least 97 % of nominal power during first year. Thereafter max. 0.6 % degradation per year.

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 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

PROPERTIES FOR SYSTEM DESIGN						
Maximum System Voltage**	V _{sys}	[V]	1000	Safety Class	II	
Maximum Reverse Current	I _R	[A]	20	Fire Rating	С	
Max. Design Load, Push / Pull		[Pa]	3600/2667	Permitted Module Temperature	-40°C up to $+85^{\circ}\text{C}$	
Max. Test Load, Push / Pull		[Pa]	5400/4000	on Continuous Duty		

QUALIFICATIONS AND CERTIFICATES	PACKAGING INFORMATION	
VDE Quality Tested, IEC 61215:2016; IEC 61730:2016, Application class A	Number of Modules per Pallet	32
This data sheet complies with DIN EN 50380.	Number of Pallets per 40' High Cube Container	26
\wedge	Number of Modules per 40' High Cube Container	832
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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 Australia Pty Ltd

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