

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.

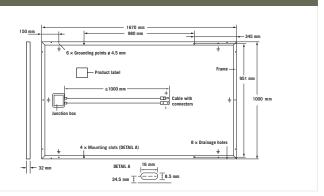
THE IDEAL SOLUTION FOR:











EL	ECTRICAL CHARACTERIS	STICS				
POWER CLASS 280 285						
MI	NIMUM PERFORMANCE AT STAN	DARD TEST CONDITIONS, STC1 (POWER TOLE	RANCE +5 W / -0 W)			
	Power at MPP ²	P _{MPP}	280	285	290	
_	Short Circuit Current*	I _{sc}	9.41	9.46	9.52	
Minimum	Open Circuit Voltage*	V _{oc}	38.97	39.22	39.48	
Min	Current at MPP*	I _{MPP}	8.84	8.91	8.98	
	Voltage at MPP*	V_{MPP}	31.67	31.99	32.29	
	Efficiency ²	η	≥16.8	≥17.1	≥17.4	
MI	NIMUM PERFORMANCE AT NORM	MAL OPERATING CONDITIONS, NOC3				
	Power at MPP ²	P_{MPP}	207.0	210.7	214.4	
트	Short Circuit Current*	I _{sc}	7.58	7.63	7.68	
Minimum	Open Circuit Voltage*	V _{oc}	36.37	36.61	36.84	
Ξ	Current at MPP*	I _{MPP}	6.93	6.99	7.05	
	Voltage at MPP*	V_{MPP}	29.87	30.15	30.42	
¹ 100	0 W/m ² , 25 °C, spectrum AM 1.5 G	2 Measurement tolerances STC $\pm3\%;NOC\pm5\%$	³ 800 W/m ² , NOCT, spectrum AM 1.5 G	* typical values, actual values may differ		

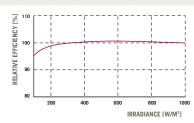
Q CELLS PERFORMANCE WARRANTY

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

PERFORMANCE AT LOW IRRADIANCE



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

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	$\mathbf{V}_{\mathrm{SYS}}$	[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.

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