

Q.ANTUM SOLAR MODULE

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 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 (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, 168 h)
- See data sheet on rear for further information.

THE IDEAL SOLUTION FOR:





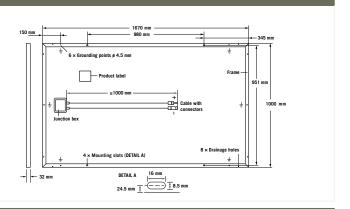


Engineered in Germany



KT-ELECTRONIC

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OWER CLASS		280	285	29
MINIMUM 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	9.5
Open Circuit Voltage* Current at MPP*	V _{oc}	38.97	39.22	39.4
Current at MPP*	I _{MPP}	8.84	8.91	8.9
Voltage at MPP*	V _{MPP}	31.67	31.99	32.2
Efficiency ²	η	≥16.8	≥17.1	≥17.
MINIMUM PERFORMANCE AT NORM	AL OPERATING CONDITIONS, NOC3			
Power at MPP ²	P _{MPP}	207.0	210.7	214
Short Circuit Current*	I _{sc}	7.58	7.63	7.6
Open Circuit Voltage*	V _{oc}	36.37	36.61	36.8
Current at MPP*	I _{MPP}	6.93	6.99	7.0
Voltage at MPP*	V _{MPP}	29.87	30.15	30.4

Q CELLS PERFORMANCE WARRANTY

COMPARED TO for the 10 PV companies anacity in 2014 (as at: Se

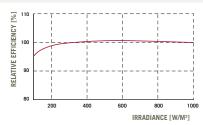
At least 97 % of nominal power during first year. Thereafter max. 0.6 % degradation per year.

At least 92% of nominal power up to 10 years. At least 83 % of nominal power up to

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

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 $+85^{\circ}\text{C}$

QUALIFICATIONS AND CERTIFICATES

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





PARTNER

