

The new high-performance module Q.PEAK-G4.1 is the ideal solution for residential buildings thanks to its innovative cell technology Q.ANTUM Ultra. 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 ULTRA 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 $18.6\,\%$.



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 I, 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.









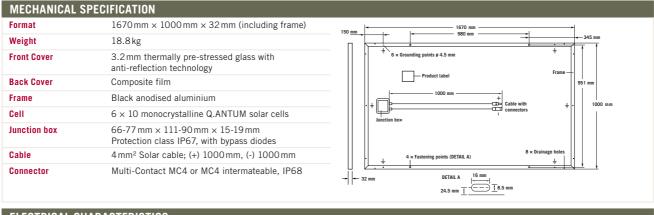


- APT test conditions: Cells at -1500V against grounded, with conductive metal foil covered module surface, 25°C, 168h
- See data sheet on rear for further information.

THE IDEAL SOLUTION FOR:



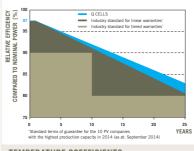
QCELLS



ELI	ECTRICAL CHARACTERIS	STICS						
P0\	POWER CLASS 295 300 3							
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC1 (POWER TOLERANCE +5 W / -0 W)								
	Power at MPP ²	P _{MPP}	295	300	305			
_	Short Circuit Current*	I _{sc}	9.70	9.77	9.84			
Ē	Open Circuit Voltage*	V _{oc}	39.48	39.76	40.05			
Minimum	Current at MPP*	I _{MPP}	9.17	9.26	9.35			
-	Voltage at MPP*	V_{MPP}	32.19	32.41	32.62			
	Efficiency ²	η	≥17.7	≥ 18.0	≥18.3			
MIN	MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NOC3							
	Power at MPP ²	P _{MPP}	218.1	221.8	225.5			
Ę	Short Circuit Current*	I _{sc}	7.82	7.88	7.94			
Minimum	Open Circuit Voltage*	V _{oc}	36.92	37.19	37.46			
Ξ	Current at MPP*	I _{MPP}	7.20	7.27	7.35			
	Voltage at MPP*	V _{MPP}	30.30	30.49	30.67			
1100	0 W/m², 25°C, spectrum AM 1.5 G	2 Measurement tolerances STC $\pm 3\%;~NOC~\pm 5\%$	³ 800 W/m ² , NOCT, spectrum AM 1.5 G	* typical values, actual values may differ				

Q CELLS PERFORMANCE WARRANTY

PERFORMANCE AT LOW IRRADIANCE



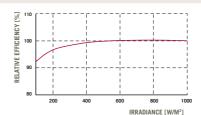
At least 97 % of nominal power during At least 97% of nominal power during first year. Thereafter max. 0.6% degradation per year.

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.



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	Tempera
Temperature Coefficient of \mathbf{P}_{MPP}	γ	[%/K]	-0.39	Normal (

emperature Coefficient of V _{oc}	β	[%/K]	-0.28
ormal 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.





