

The new high-performance module Q.PEAK-G4.1 is the ideal solution for residential buildings 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 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 LID Technology, Anti PID Technology $^{\rm l}$, Hot-Spot Protect and Traceable Quality Tra.Q $^{\rm TM}$.



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.









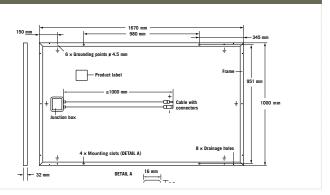


- ¹ APT test conditions according to IEC/TS 62804-1:2015, method B (-1500 V, 168 h)
- See data sheet on rear for further information.

THE IDEAL SOLUTION FOR:







EL	ECTRICAL CHARACTERISTICS							
PO	POWER CLASS 290 295 300 30						305	
MII	NIMUM PERFORMANCE AT STANDARD TEST COND	TIONS, STO	(POWER TO	DLERANCE +5W/-0W)				
	Power at MPP ²	\mathbf{P}_{MPP}	[W]	290	295	300	305	
_	Short Circuit Current*	I _{sc}	[A]	9.63	9.70	9.77	9.84	
Minimum	Open Circuit Voltage*	\mathbf{V}_{oc}	[V]	39.19	39.48	39.76	40.05	
Min	Current at MPP*	I _{MPP}	[A]	9.07	9.17	9.26	9.35	
_	Voltage at MPP*	\mathbf{V}_{MPP}	[V]	31.96	32.19	32.41	32.62	
	Efficiency ²	η	[%]	≥17.4	≥17.7	≥18.0	≥18.3	
MII	MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NOC ³							
	Power at MPP ²	\mathbf{P}_{MPP}	[W]	214.4	218.1	221.8	225.5	
트	Short Circuit Current*	I _{sc}	[A]	7.77	7.82	7.88	7.94	
Minimum	Open Circuit Voltage*	V _{oc}	[V]	36.65	36.92	37.19	37.46	
Ξ	Current at MPP*	I _{MPP}	[A]	7.12	7.20	7.27	7.35	
	Voltage at MPP*	\mathbf{V}_{MPP}	[V]	30.12	30.30	30.49	30.67	

1000 W/m², 25 °C, spectrum AM 1.5G 2 Measurement tolerances STC ±3%; NOC ±5% 3 800 W/m², NOCT, spectrum AM 1.5G *typical values, actual values may differ

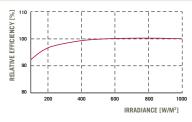
Q CELLS PERFORMANCE WARRANTY

At least 98% of nominal power during first year. Thereafter max. 0.6% degradation per year.
At least 92.6% of nominal power up to

10 years. At least 83.6% 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 $^{\circ}$ C, 1000 W/m²).

TEMPERATURE COEFFICIENTS

Temperature Coefficient of I _{sc}	α	[%/K]	+0.04	Temperature Coefficient of V _{oc}	β	[%/K]	-0.28
Temperature Coefficient of P	٧	[%/K]	-0.39	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

RTIFICATES 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 Australia Pty Ltd

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