

The new high-performance module Q.PEAK BLK-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 18.0%.



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:





EL	ECTRICAL CHARACTERISTICS				
PO	WER CLASS		285	290	295
MII	NIMUM PERFORMANCE AT STANDARD	TEST CONDITIONS, STC1 (POWER TOLE	RANCE +5 W / -0 W)		
	Power at MPP ²	P _{MPP}	285	290	295
Minimum	Short Circuit Current*	I _{sc}	9.56	9.63	9.70
	Open Circuit Voltage*	V _{oc}	38.91	39.19	39.48
	Current at MPP*	I _{MPP}	8.98	9.07	9.17
	Voltage at MPP*	V _{MPP}	31.73	31.96	32.19
	Efficiency ²	η	≥17.1	≥17.4	≥17.7
MII	MUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC1 (POWER TOLERANCE +5W / - 0W) Power at MPP2				
Minimum	Power at MPP ²	P _{MPP}	210.7	214.4	218.1
	Short Circuit Current*	I _{sc}	7.71	7.77	7.82
	Open Circuit Voltage*	V _{oc}	36.38	36.65	36.92
	Current at MPP*	I _{MPP}	7.04	7.12	7.20
	Voltage at MPP*	V _{MPP}	29.92	30.12	30.30

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

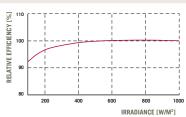
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At least 98% of nominal power during first year. Thereafter max. 0.6% degradation per year.
At least 92.6% of nominal power up to

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 $^{\circ}\text{C},\ 1000\,\text{W/m}^2\text{)}.$

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

PARTNER

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.





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 GmbH

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