

With its top performance and completely black design the new Q.PEAK BLK-G4.1 is the ideal solution for all residential rooftop 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.



LOW ELECTRICITY GENERATION COSTS

Higher yield per surface area and lower BOS costs thanks to 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 behavior.



ENDURING HIGH PERFORMANCE

Long-term yield security with Anti-PID Technology¹, Hot-Spot-Protect and Traceable Quality $Tra.Q^{TM}$.



EXTREME WEATHER RATING

High-tech aluminum alloy frame, certified for high snow (5400 Pa) and wind loads (4000 Pa) regarding IEC.



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 guarantee².



THE IDEAL SOLUTION FOR:











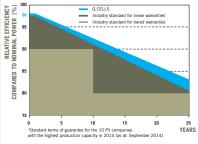


- APT test conditions: Cells at -1500V against grounded, with conductive metal foil covered module surface, 25 °C, 168h
- See data sheet on rear for further information.



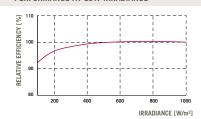
ELECTRICAL CHARACTERISTICS							
POWER CLASS 285 290					295		
MII	MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC¹ (POWER TOLERANCE +5 W / -0 W)						
Minimum	Power at MPP ²	P _{MPP}	[W]	285	290	295	
	Short Circuit Current*	I _{sc}	[A]	9.56	9.63	9.70	
	Open Circuit Voltage*	V _{oc}	[V]	38.91	39.19	39.48	
	Current at MPP*	I _{MPP}	[A]	8.98	9.07	9.17	
_	Voltage at MPP*	V_{MPP}	[V]	31.73	31.96	32.19	
	Efficiency ²	η	[%]	≥17.1	≥17.4	≥17.7	
MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NOC ³							
	Power at MPP ²	P_{MPP}	[W]	210.7	214.4	218.1	
트	Short Circuit Current*	I _{sc}	[A]	7.71	7.77	7.82	
Minimum	Open Circuit Voltage*	V _{oc}	[V]	36.38	36.65	36.92	
	Current at MPP*	I _{MPP}	[A]	7.04	7.12	7.20	
	Voltage at MPP*	V_{MPP}	[V]	29.92	30.12	30.30	
11000 W/m², 25 °C, spectrum AM 1.5 G 2 Measurement tolerances STC ±3%; NOC ±5% 3800 W/m², NOCT, spectrum AM 1.5 G * typical values, actual values may differ							
Q CELLS PERFORMANCE WARRANTY PERFORMANCE AT LOW IRRADIANCE							

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.



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 V_{oc}	β	[%/K]	-0.28
Temperature Coefficient of P _{MPP}	γ	[%/K]	-0.39	Normal Operating Cell Temperature	NOCT	[° F]	113 ±5.4 (45 ±3°C)

PROPERTIES FOR SYSTEM DESIGN						
Maximum System Voltage V _{sys}	[V]	1000 (IEC) / 1000 (UL)	Safety Class	II		
Maximum Series Fuse Rating	[A DC]	20	Fire Rating	C (IEC) / TYPE 1 (UL)		
Design load, push (UL) ²	[lbs/ft²]	75 (3600 Pa)	Permitted module temperature on continuous duty	-40°F up to +185°F (-40°C up to +85°C)		
Design load, pull (UL) ²	[lbs/ft²]	55.6 (2666 Pa)	² see installation manual			

QUALIFICATIONS AND CERTIFICATES	PACKAGING INFORMATION	PACKAGING INFORMATION		
UL 1703; VDE Quality Tested; CE-compliant;	Number of Modules per Pallet	32		
IEC 61215 (Ed.2); IEC 61730 (Ed.1) application class A	Number of Pallets per 53' Container	30		
	Number of Pallets per 40' Container	26		
C Certifica US UL 1703	Pallet Dimensions ($L \times W \times H$)	$68.7 \text{ in} \times 45.3 \text{ in} \times 46.1 \text{ in}$ (1745 mm × 1150 mm × 1170 mm)		

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.

Pallet Weight

Hanwha Q CELLS America Inc.

1435 lbs (651 kg)