

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™.



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:









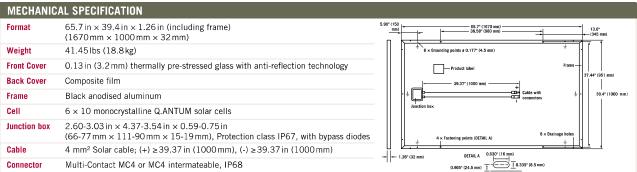






- ¹ APT test conditions: Cells at -1500V against grounded, with conductive metal foil covered module surface, 25°C,
- ² See data sheet on rear for further information





	WER CLASS NIMUM PERFORMANCE AT STANDARD TEST C	ONDITIONS, STC1	(POWER TOLER	285 ANCE +5 W / -0 W)	290	29
	Power at MPP ²	P_{MPP}	[W]	285	290	29
	Short Circuit Current*	I _{sc}	[A]	9.56	9.63	9.7
Minimum	Open Circuit Voltage*	V _{oc}	[V]	38.91	39.19	39.
Z.	Current at MPP*	I _{MPP}	[A]	8.98	9.07	9.
	Voltage at MPP*	\mathbf{V}_{MPP}	[V]	31.73	31.96	32.
	Efficiency ²	η	[%]	≥ 17.1	≥17.4	≥ 17
MIN	NIMUM PERFORMANCE AT NORMAL OPERATII	NG CONDITIONS, N	IOC3			
	Power at MPP ²	P_{MPP}	[W]	210.7	214.4	218
트	Short Circuit Current*	I _{sc}	[A]	7.71	7.77	7.
Minimum	Open Circuit Voltage*	V _{oc}	[V]	36.38	36.65	36.
	Current at MPP*	I _{MPP}	[A]	7.04	7.12	7.
	Voltage at MPP*	V_{MPP}	[V]	29.92	30.12	30.
100	00W/m ² , 25°C, spectrum AM 1.5G ² Measurem	ent tolerances STC ±	3%; NOC ±5%	³ 800 W/m ² , NOCT, spectrum AM 1.5 G	* typical values, actual values may differ	
Q C	ELLS PERFORMANCE WARRANTY			F	ERFORMANCE AT LOW IRRADIANCE	
O NOMINAL PO	GCLLS Industry standard for linear warranties' Industry standard for linear w	Thereafter max At least 92.6 % At least 83.6 % All data within Full warranties	c. 0.6% degrada 6 of nominal pov 6 of nominal pov measurement to in accordance v CELLS sales org	ver up to 10 years. ver up to 25 years.	9 110 100 100 100 100 100 100 100 100 10	

PROPERTIES FOR SYSTEM D	ECICN			
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	

+0.04 Temperature Coefficient of V_{oc}

-0.39 Normal Operating Cell Temperature

Typical module performance under low irradiance conditions in

-0.28

113 ±5.4 (45 ±3°C)

comparison to STC conditions (25°C, 1000 W/m²).

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QUALIFICATIONS AND CER	TIFICATES	PACKAGING INFORMATION	PACKAGING INFORMATION		
UL 1703; VDE Quality Tested; CE-co		Number of Modules per Pallet	32		
IEC 61215 (Ed.2); IEC 61730 (Ed.1	C Cornine US	Number of Pallets per 53' Container	30		
\wedge		Number of Pallets per 40' Container	26		
CO'E) CE		Pallet Dimensions (L × W × H)	$68.7 \text{in} \times 45.3 \text{in} \times 46.1 \text{in}$ (1745 mm × 1150 mm × 1170 mm)		
	12041417	Pallet Weight	1435 lbs (651 kg)		

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

TEMPERATURE COEFFICIENTS

Temperature Coefficient of I_{sc}

Temperature Coefficient of PMPP

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