

Q.PEAK BLK 245-260

Top performance and appearance

The monocrystalline Q.PEAK BLK solar module with its power classes up to 260 W is the ultimate choice for demanding architectural PV solutions: Black cells, black frame and black back sheet. Made in Germany, Q.PEAK BLK boasts all that German engineering by Q.CELLS has to offer including our unique triple Yield Security.

YOUR EXCLUSIVE TRIPLE YIELD SECURITY

- Anti PID Technology (APT) reliably prevents power loss resulting from unwanted leakage currents (potential-induced degradation)¹.
- Hot-Spot Protect (HSP) prevents yield losses and reliably protects against module fire.
- Traceable Quality (Tra.QTM) is the ,Finger Print' of a solar cell. Tra.QTM ensures continuous quality control throughout the entire production process from cells to modules while making Q.CELLS solar modules forgery proof.

ONE MORE ADVANTAGE FOR YOU

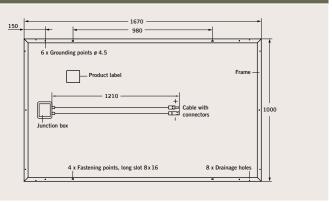
- NEW! More energy output: optimised light utilisation with non-corrosive anti-reflection technology.
- Controlled quality: Q.CELLS tests its solar modules in the world's largest module testing center at head office in Thalheim, Germany, longer and more stringently than prescribed in the standards.
- Guaranteed performance: Q.CELLS offers the best warranties on the market.
 A 10-year product warranty plus a 25-year linear performance warranty².



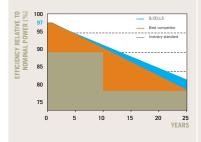
APT test conditions: Cells at -1000 V against grounded, with conductive metal foil covered module surface, 25 °C, 168 h (TÜV test conditions)

See data sheet on rear for further information.

MECHANICAL SPECIFICATION					
Format	1670 mm x 1000 mm x 50 mm (including frame)				
Weight	19.8 kg				
Front Cover	3.2 mm thermally pre-stressed glass with anti-reflection technology				
Back Cover	Black composite film				
Frame	Black anodized aluminum				
Cell	6 x 10 monocrystalline solar cells				
Junction box	116 mm x 153 mm x 20 mm Protection class IP 68, with bypass diodes				
Cable	4 mm² Solar cable; (+) 1210 mm, (-) 1210 mm				
Connector	Yamaichi Y-SOL4, IP 68				



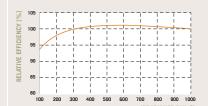
ELECTRICAL CHARACTERISTICS							
PERFORMANCE AT STANDARD TEST CONDITIONS (STC: 1000 W/m², 25 °C, AM 1.5 SPECTRUM)¹							
NOMINAL POWER (+5 / -0 W)		[W]	245		250	255	260
Average Power	\mathbf{P}_{MPP}	[W]	247.5		252.5	257.5	262.5
Short Circuit Current	I _{sc}	[A]	8.67		8.75	8.82	8.90
Open Circuit Voltage	V _{oc}	[V]	37.74		37.94	38.14	38.33
Current at P _{MPP}	I _{MPP}	[A]	8.16		8.26	8.35	8.45
Voltage at P _{MPP}	\mathbf{V}_{MPP}	[V]	30.32		30.58	30.83	31.08
Efficiency (Nominal Power)	η	[%]	≥14.7		≥15.0	≥15.3	≥15.6
PERFORMANCE AT NORMAL OPERATING CELL TEMPERATURE (NOCT: 800 W/m², 47 ±3 °C, AM 1.5 SPECTRUM)²							
NOMINAL POWER (+5 / -0 W)		[W]	245		250	255	260
Average Power	\mathbf{P}_{MPP}	[W]	180.6		184.3	187.9	191.6
Short Circuit Current	I _{sc}	[A]	6.99		7.06	7.12	7.19
Open Circuit Voltage	V _{oc}	[V]	34.66		34.85	35.03	35.21
Current at P _{MPP}	I _{MPP}	[A]	6.53		6.60	6.68	6.75
Voltage at P _{MPP}	\mathbf{V}_{MPP}	[V]	27.68		27.92	28.16	28.61
$^{1} \text{ Measurement tolerances STC:} \pm 3 \% (P_{\text{MPP}}); \pm 10 \% (I_{\text{SC}}, V_{\text{OC}}, I_{\text{MPP}}, V_{\text{MPP}}) \\ \\ ^{2} \text{ Measurement tolerated}$				rement tolerances NC	rances NOCT: ± 5 % (P _{MPP}); ± 10 % (I _{SC} , V _{OC} , I _{MPP} , V _{MPP})		
Q.CELLS PERFORMANCE WARRANTY			PERFORMANCE AT LOW IRRADIANCE				



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

At least 92% of nominal power after 10 years. At least 83% of nominal power after 25 years.

All data within measurement tolerances. Full warranties in accordance with the warranty terms of the Q.CELLS sales organization of your respective country.



The typical change in module efficiency at an irradiance of 200 W/m² in relation to 1000 W/m² (both at 25 °C and AM 1.5 G spectrum) is -2 % (relative).

TEMPERATURE CUEFFICIENTS (AT	1000 W/m², 2	25 °C, AIVI	I.5 SPECIKI	JIVI)
Temperature Coefficient of Iss	α	[%/K]	+0.04	

Temperature Coefficient of I _{sc}	α	[%/K]	+0.04	Temperature Coefficient of V _{oc}	β	[%/K]	-0.33
Temperature Coefficient of $P_{\mbox{\tiny MPP}}$	γ	[%/K]	-0.43				
PROPERTIES FOR SYSTEM DESIGN							

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Maximum System Voltage V _{SYS}	[V]	1000	Safety Class	II		
Maximum Reverse Current I _R	[A]	20	Fire Rating	С		
Wind/Snow Load (tested in accordance with IEC 61215)	[Pa]	5400	Permitted module temperature on continous duty	-40 °C up to +85 °C		

QUALIFICATIONS AND CERTIFICATES PARTNER

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 the technical service for further information on approved installation and use of this product.

