Q.PEAK BLK-G3 265-275

MONOCRYSTALLINE SOLAR MODULE

With its top performances and completely black design, the new **Q.PEAK BLK-G3** is the aesthetic model athlete. The third module generation from **Q CELLS** has been optimised across the board: improved output yield, higher operating reliability and durability, quicker installation and more intelligent design – Made in Europe.

INNOVATIVE ALL-WEATHER TECHNOLOGY

- Maximum yields with excellent low-light and temperature behaviour.
- Increased cell efficiency due to fullsquare monocrystalline cells.

ENDURING HIGH PERFORMANCE

- Long-term Yield Security due to Anti PID Technology¹, Hot-Spot Protect, and Traceable Quality Tra.Q[™].
- Long-term stability due to VDE Quality Tested – the strictest test program.

SAFE ELECTRONICS

- Protection against short circuits and thermally induced power losses due to breathable junction box and welded cables.
- Increased flexibility due to MC4-intermateable connectors.

PROFIT-INCREASING GLASS TECHNOLOGY

 Reduction of light reflection by 50%, plus long-term corrosion resistance due to high-quality »Sol-Gel roller coating« processing.

LIGHTWEIGHT QUALITY FRAME

• Stability at wind loads of up to 5400 Pa with a module weight of just 19 kg due to slim frame design with high-tech alloy.

MAXIMUM COST REDUCTIONS

• Up to 31% lower logistics costs due to higher module capacity per box.

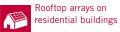
EXTENDED WARRANTIES

• Investment security due to 12-year product warranty and 25-year linear performance warranty².





THE IDEAL SOLUTION FOR:

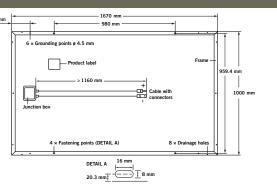


- ¹ APT test conditions: Cells at -1000V against grounded, with conductive metal foil covered module surface, 25°C, 168 h
- ² See data sheet on rear for further information.



MECHANICAL SPECIFICATION

	LOITION	
Format	$1670\text{mm}\times1000\text{mm}\times35\text{mm}$ (including frame)	150 mm
Weight	19kg	
Front Cover	3.2 mm thermally pre-stressed glass with anti-reflection technology	
Back Cover	Composite film	
Frame	Black anodised aluminum	
Cell	6×10 monocrystalline solar cells	
Junction box	110 mm × 115 mm × 23 mm Protection class IP67, with bypass diodes	
Cable	$4mm^2$ Solar cable; (+) $\geq\!1160$ mm, (-) $\geq\!1160$ mm	
Connector	SOLARLOK PV4, IP68	

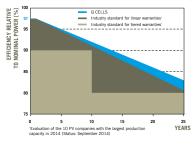


ELECTRICAL CHARACTERISTICS

PERFORMANCE AT STANDARD TEST CONDITIONS (STC: 1000 W/m², 25 °C, AM 1.5G SPECTRUM) ¹							
NOMINAL POWER (+5W/-0W)		[W]	265	270	275		
Average Power	P _{MPP}	[W]	267.5	272.5	277.5		
Short Circuit Current	I _{sc}	[A]	9.08	9.14	9.21		
Open Circuit Voltage	V _{oc}	[V]	38.22	38.51	38.80		
Current at P _{MPP}	I _{MPP}	[A]	8.60	8.67	8.74		
Voltage at P _{MPP}	V	[V]	31.10	31.42	31.73		
Efficiency (Nominal Power)	η	[%]	≥15.9	≥16.2	≥16.5		
PERFORMANCE AT NORMAL OPERATING CELL TE	MPERATUR	E (NOCT: 8	800 W/m², 45 ±3°C. AM 1.5G SPE	CTRUM) ²			
NOMINAL POWER (+5W/-OW)		[W]	265	270	275		
Average Power	P _{MPP}	[W]	197.1	200.8	204.5		
Short Circuit Current	I _{sc}	[A]	7.32	7.37	7.43		
Open Circuit Voltage	V _{oc}	[V]	35.58	35.86	36.13		
Current at P _{MPP}	I _{MPP}	[A]	6.76	6.82	6.88		
Voltage at P _{MPP}	V	[V]	29.16	29.45	29.74		

 1 Measurement tolerances STC: ±3% (P_{_{mpp}}); ±10% (I_{_{sc}}, V_{_{oc}}, I_{_{mpp}}, V_{_{mpp}}) 2 Measurement tolerances NOCT: ±5% (P_{_{mpp}}); ±10% (I_{_{sc}}, V_{_{oc}}, I_{_{mpp}}, V_{_{mpp}})

Q CELLS PERFORMANCE WARRANTY

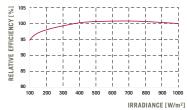


At least 97 % of nominal power during

first year. Thereafter max. 0.6 % degradation per year. 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 organisation of your respective country



PERFORMANCE AT LOW IRRADIANCE

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 1.5G spectrum) is -2 % (relative).

TEMPERATURE COEFFICIENTS (AT 10	00 W/M², 2	25°C, AM 1.5G	SPECTRUM)				
Temperature Coefficient of I _{sc}	α	[%/K]	+0.04	Temperature Coefficient of V_{oc}	β	[%/K]	-0.30
Temperature Coefficient of $\mathbf{P}_{_{\mathbf{MPP}}}$	Ŷ	[%/K]	-0.42				
PROPERTIES FOR SYSTEM D	ESIGN						
Maximum System Voltage V _{sys}		[V]	1000	Safety Class		II	
Maximum Reverse Current I _R		[A]	20	Fire Rating		С	
Wind/Snow Load (in accordance with IEC 61215)		[Pa]	5400	Permitted module temperature on continu duty	ious	-40°C up to +85°C	
QUALIFICATIONS AND CERTI	FICATES			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.

CE

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

Sonnenallee 17-21, 06766 Bitterfeld-Wolfen, Germany | TEL +49 (0)3494 66 99-23444 | FAX +49 (0)3494 66 99-23000 | EMAIL sales@q-cells.com | WEB www.q-cells.com

