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 LID Technology, Anti PID Technology¹, Hot-Spot Protect and Traceable Quality Tra.Q™.

**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.

---

¹ APT test conditions: Cells at -1500 V against grounded, with conductive metal foil covered module surface, 25°C, 168h
² See data sheet on rear for further information.

**THE IDEAL SOLUTION FOR:**
- Rooftop arrays on residential buildings

Engineered in Germany
MECHANICAL SPECIFICATION

Format 1670 mm × 1000 mm × 32 mm (including frame)
Weight 18.8 kg
Front Cover 3.2 mm thermally pre-stressed glass with anti-reflection technology
Back Cover Composite film
Frame Black anodised aluminium
Cell 6 × 10 monocrystalline Q.ANTUM solar cells
Junction box 66-77 mm × 15-19 mm Protection class IP67, with bypass diodes
Cable 4 mm² Solar cable; (+) 1000 mm, (-) 1000 mm
Connector Multi-Contact, MC4, IP65 and IP68

QUALIFICATIONS AND CERTIFICATES

Q CELLS PERFORMANCE WARRANTY

PERFORMANCE AT LOW IRRADIANCE

Temperature Coefficient of I SC
- 0.28
Temperature Coefficient of V OC
+ 0.04
Temperature Coefficient of P MPP
- 0.28

Minimum Performance at Low Irradiance

IRRADIANCE [W/m²] RELATIVE EFFICIENCY [%]
800  98
1500  100
2000  95
2500  90
3000  85
3500  80
4000  75

TEMPERATURE COEFFICIENTS

Temperature Coefficient of I SC
α (%) / K = - 0.39
Temperature Coefficient of V OC
β (%) / K = - 0.28
Normal Operating Cell Temperature
NOCT (°C) = 45

PROPERTIES FOR SYSTEM DESIGN

Maximum System Voltage
V_{sys} [V] = 1000
Maximum Reverse Current
I_{SC} [A] = 20
Wind/Snow Load
(Performance in accordance with IEC 61215)
1000 Pa

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.