The new Q.PEAK DUO BLK-G5 solar module from Q CELLS impresses with its outstanding visual appearance and particularly high performance on a small surface thanks to the innovative Q.ANTUM DUO Technology. Q.ANTUM’s world-record-holding cell concept has now been combined with state-of-the-art circuitry half cells and a six-busbar design, thus achieving outstanding performance under real conditions — both with low-intensity solar radiation as well as on hot, clear summer days.

Q.ANTUM TECHNOLOGY: LOW LEVELISED COST OF ELECTRICITY
Higher yield per surface area, lower BOS costs, higher power classes, and an efficiency rate of up to 19.3%.

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).

A RELIABLE INVESTMENT
Inclusive 12-year product warranty and 25-year linear performance warranty².

STATE OF THE ART MODULE TECHNOLOGY
Q.ANTUM DUO combines cutting edge cell separation and innovative wiring with Q.ANTUM Technology.

1 APT test conditions according to IEC/TS 62804-1:2015, method B (~1500V, 168h)
2 See data sheet on rear for further information.
MECHANICAL SPECIFICATION

Format 1685 mm × 1000 mm × 32 mm (including frame)
Weight 18.7 kg
Front Cover 3.2 mm thermally pre-stressed glass with anti-reflection technology
Back Cover Composite film
Frame Black anodised aluminium
Cell 6 × 20 monocrystalline Q.ANTUM solar half cells
Junction box 70-85 mm × 50-70 mm × 13-21 mm Protection class IP67, with bypass diodes
Cable 4 mm² Solar cable; (+) 1100 mm, (−) 1100 mm
Connector Multi-Contact MC4, IP65 and IP68

QUALIFICATIONS AND CERTIFICATES

Q CELLS PERFORMANCE WARRANTY

PERFORMANCE AT LOW IRRADIANCE

Temperature Coefficient of \( I_{SC} \) \( \alpha \) (%/K) = 0.04
Temperature Coefficient of \( V_{OC} \) \( \beta \) (%/K) = −0.28
Normal Operating Cell Temperature NOCT [°C] = 45

PROPERTIES FOR SYSTEM DESIGN

Maximum System Voltage \( V_{bus} \) [V] = 1000
Safety Class II

Maximum Reverse Current \( I_{R} \) [A] = 20
Fire Rating C

Push/Pull Load (Test-load in accordance with IEC 61215) (Pa) = 5400/4000
Permitted Module Temperature On Continuous Duty −40°C up to +85°C

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.