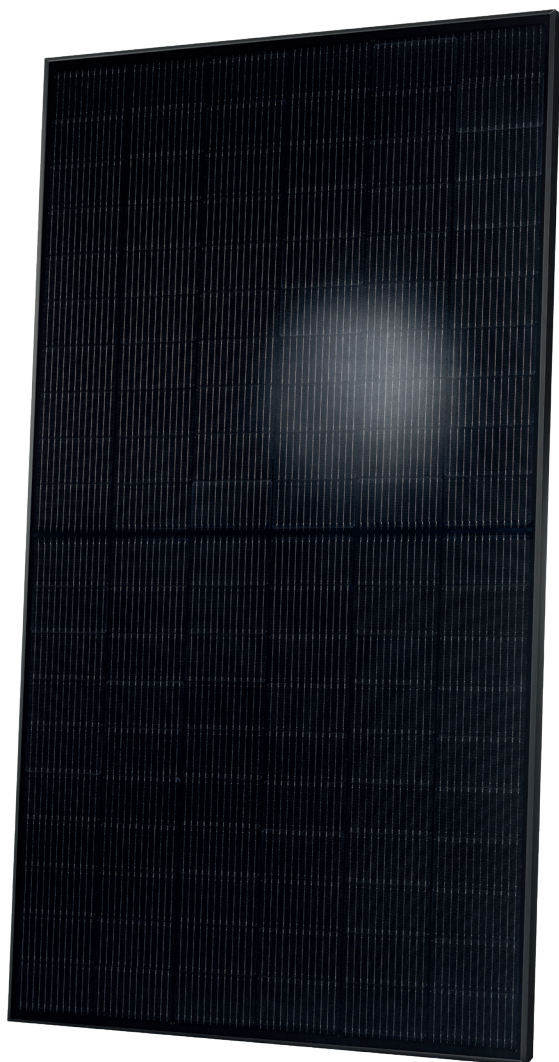


Q.TRON BLK-G1+ SERIES



370-395 Wp | 120 Cells
22.0% Maximum Module Efficiency

MODEL Q.TRON BLK-G1+



High performance Qcells N-type solar cells

Q.ANTUM NEO Technology with zero gap cell layout boosts module efficiency up to 22.0%.



A reliable investment

Inclusive 25-year product warranty and 25-year linear performance warranty¹.



Enduring high performance

Long-term yield security with Anti LeTID Technology, Anti PID Technology², Hot-Spot Protect.



Extreme weather rating

High-tech aluminium alloy frame, certified for high snow (8100 Pa) and wind loads (4000 Pa).



Innovative all-weather technology

Optimal yields, whatever the weather with excellent low-light and temperature behaviour.



The most thorough testing programme in the industry

Qcells is the first solar module manufacturer to pass the most comprehensive quality programme in the industry: The new "Quality Controlled PV" of the independent certification institute TÜV Rheinland.

¹ See data sheet on rear for further information.

² APT test conditions according to IEC/TS 62804-1:2015, method A (~1500 V, 96 h)

The ideal solution for:



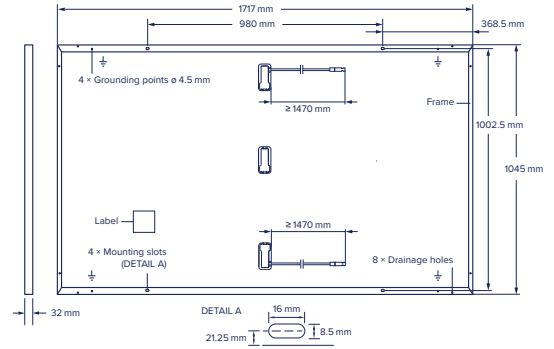
Rooftop arrays on residential buildings



Q.TRON BLK-G1+ SERIES

Mechanical Specification

Format	1717 mm × 1045 mm × 32 mm (including frame)
Weight	19.9 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 NEO solar half cells
Junction box	53-101 mm × 32-60 mm × 15-18 mm Protection class IP67, with bypass diodes
Cable	4 mm ² Solar cable; (+) ≥1470 mm, (-) ≥1470 mm
Connector	Stäubli MC4; IP68



Electrical Characteristics

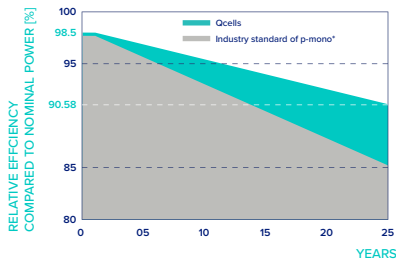
POWER CLASS		370	375	380	385	390	395	
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC ¹ (POWER TOLERANCE +5 W/-0 W)								
Minimum	Power at MPP ¹	P_{MPP} [W]	370	375	380	385	390	395
	Short Circuit Current ¹	I_{SC} [A]	11.05	11.08	11.12	11.15	11.18	11.21
	Open Circuit Voltage ¹	V_{OC} [V]	42.52	42.56	42.59	42.62	42.66	42.69
	Current at MPP	I_{MPP} [A]	10.45	10.52	10.58	10.64	10.70	10.76
	Voltage at MPP	V_{MPP} [V]	35.39	35.66	35.93	36.20	36.46	36.72
	Efficiency ¹	η [%]	≥20.6	≥20.9	≥21.2	≥21.5	≥21.7	≥22.0

MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT²

Minimum	Power at MPP	P_{MPP} [W]	279.8	283.6	287.4	291.1	294.9	298.7
	Short Circuit Current	I_{SC} [A]	8.90	8.93	8.96	8.98	9.01	9.04
	Open Circuit Voltage	V_{OC} [V]	40.34	40.37	40.41	40.44	40.47	40.50
	Current at MPP	I_{MPP} [A]	8.21	8.27	8.32	8.38	8.43	8.48
	Voltage at MPP	V_{MPP} [V]	34.06	34.30	34.53	34.76	34.98	35.21

¹Measurement tolerances $P_{MPP} \pm 3\%$; I_{SC} ; $V_{OC} \pm 5\%$ at STC: 1000 W/m², 25 ± 2 °C, AM 1.5 according to IEC 60904-3 • ²800 W/m², NMOT, spectrum AM 1.5

Qcells PERFORMANCE WARRANTY

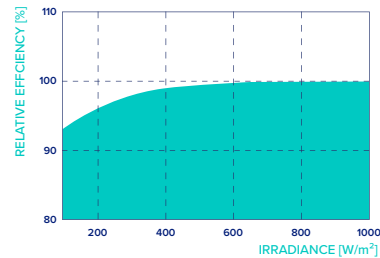


At least 98.5% of nominal power during first year. Thereafter max. 0.33% degradation per year. At least 95.53% of nominal power up to 10 years. At least 90.58% of nominal power up to 25 years.

All data within measurement tolerances. Full warranties in accordance with the warranty terms of the Qcells sales organisation of your respective country.

*Standard terms of guarantee for the 5 PV companies with the highest production capacity in 2021 (February 2021)

PERFORMANCE AT LOW IRRADIANCE



Typical module performance under low irradiance conditions in comparison to STC conditions (25 °C, 1000 W/m²).

TEMPERATURE COEFFICIENTS

Temperature Coefficient of I_{SC}	α [%/K]	+0.04	Temperature Coefficient of V_{OC}	β [%/K]	-0.24
Temperature Coefficient of P_{MPP}	γ [%/K]	-0.30	Nominal Module Operating Temperature	NMOT [°C]	43 ± 3

Properties for System Design

Maximum System Voltage	V_{SYS} [V]	1000	PV module classification	Class II
Maximum Reverse Current	I_R [A]	20	Fire Rating based on ANSI/UL 61730	C / TYPE 2
Max. Design Load, Push/Pull	[Pa]	5400/2660	Permitted Module Temperature on Continuous Duty	-40 °C - +85 °C
Max. Test Load, Push/Pull	[Pa]	8100/4000		

Qualifications and Certificates

Quality Controlled PV -
TÜV Rheinland;
IEC 61215:2016;
IEC 61730:2016.
This data sheet complies
with DIN EN 50380.



Qcells pursues minimizing paper output in consideration of the global environment.

Note: Installation instructions must be followed. Contact our technical service for further information on approved installation of this product.

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