

# Q.MAXX BLK-G5+ SERIES



390-410 Wp | 108 Cells  
21.0 % Maximum Module Efficiency

MODEL Q.MAXX BLK-G5+



## A reliable investment

Inclusive 25-year product warranty and 25-year linear performance warranty<sup>1</sup>.



## Enduring high performance

Long-term yield security with Anti LeTID Technology and Hot-Spot Protect.



## 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.



## More suitable size for residential installation

With its length less than 1722 mm, Q.MAXX BLK-G5+ provides with easier system designs and installations.



## Breaking the 21% efficiency barrier

Q.ANTUM DUO Technology with optimized module layout boosts module power.



## 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.

<sup>1</sup> See data sheet on rear for further information.

### The ideal solution for:



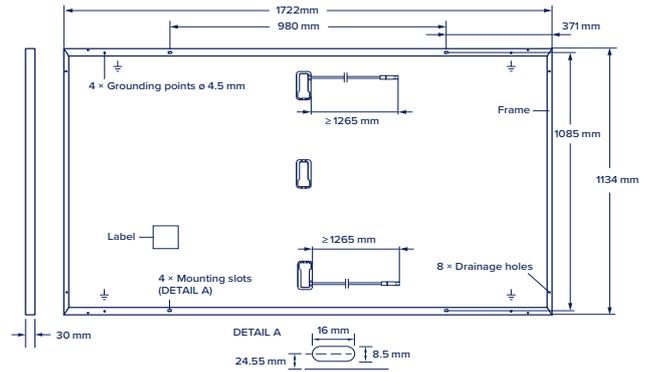
Rooftop arrays on residential buildings



# Q.MAXX BLK-G5+ SERIES

## Mechanical Specification

Format	1722 mm × 1134 mm × 30 mm (including frame)
Weight	21.1 kg
Front Cover	3.2 mm thermally pre-stressed glass with anti-reflection technology
Back Cover	Composite film
Frame	Black anodised aluminium
Cell	6 × 18 monocrystalline Q.ANTUM solar half cells
Junction box	53-101 mm × 32-60 mm × 15-18 mm Protection class IP67, with bypass diodes
Cable	4 mm <sup>2</sup> Solar cable; (+) ≥1265 mm, (-) ≥1265 mm
Connector	Stäubli MC4, Hanwha Q CELLS HQC4; IP68

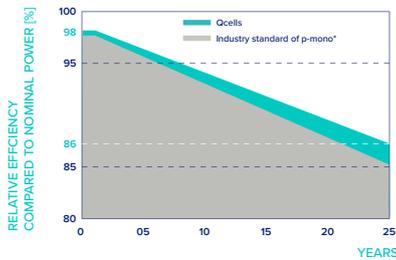


## Electrical Characteristics

POWER CLASS			390	400	410
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC <sup>1</sup> (POWER TOLERANCE +5W/-5W)					
Minimum	Power at MPP <sup>1</sup>	$P_{MPP}$ [W]	390	400	410
	Short Circuit Current <sup>1</sup>	$I_{SC}$ [A]	13.61	13.68	13.76
	Open Circuit Voltage <sup>1</sup>	$V_{OC}$ [V]	37.02	37.07	37.13
	Current at MPP	$I_{MPP}$ [A]	12.88	13.02	13.16
	Voltage at MPP	$V_{MPP}$ [V]	30.27	30.71	31.14
	Efficiency <sup>1</sup>	$\eta$ [%]	≥20.0	≥20.5	≥21.0
MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT <sup>2</sup>					
Minimum	Power at MPP	$P_{MPP}$ [W]	292.6	300.1	307.6
	Short Circuit Current	$I_{SC}$ [A]	10.97	11.03	11.09
	Open Circuit Voltage	$V_{OC}$ [V]	34.91	34.96	35.01
	Current at MPP	$I_{MPP}$ [A]	10.12	10.25	10.38
	Voltage at MPP	$V_{MPP}$ [V]	28.90	29.28	29.65

<sup>1</sup>Measurement tolerances  $P_{MPP} \pm 3\%$ ;  $I_{SC}$ ,  $V_{OC} \pm 5\%$  at STC: 1000 W/m<sup>2</sup>, 25 ± 2 °C, AM 1.5 according to IEC 60904-3 • <sup>2</sup>800 W/m<sup>2</sup>, NMOT, spectrum AM 1.5

## Qcells PERFORMANCE WARRANTY

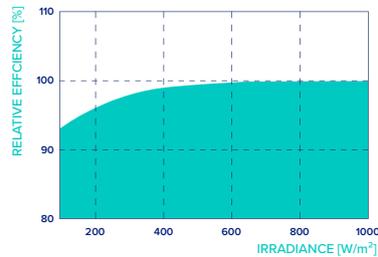


At least 98% of nominal power during first year. Thereafter max. 0.5% degradation per year. At least 93.5% of nominal power up to 10 years. At least 86% of nominal power up to 25 years.

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

<sup>\*</sup>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/m<sup>2</sup>).

## TEMPERATURE COEFFICIENTS

Temperature Coefficient of $I_{SC}$	$\alpha$ [%/K]	+0.04	Temperature Coefficient of $V_{OC}$	$\beta$ [%/K]	-0.27
Temperature Coefficient of $P_{MPP}$	$\gamma$ [%/K]	-0.34	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]	25	Fire Rating based on ANSI/UL 61730	C/TYPE 2
Max. Design Load, Push/Pull	[Pa]	5400/2665	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.



Made in China

## Packaging Information



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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