Q.MAXX-G5+ SERIES



405-415 Wp | 108 Cells 21.3 % Maximum Module Efficiency

MODEL Q.MAXX-G5+





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 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-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.

¹ See data sheet on rear for further information



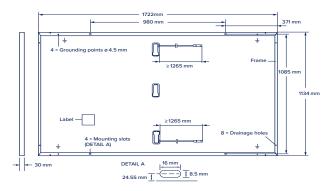
The ideal solution for:



Q.MAXX-G5+ SERIES

Mechanical Specification

Format	1722 mm × 1134 mm × 30 mm (including frame)			
Weight	21.1kg			
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 mm² Solar cable; (+) ≥1265 mm, (-) ≥1265 mm			
Connector	Stäubli MC4, Hanwha Q CELLS HQC4; IP68			



Electrical Characteristics

PC	WER CLASS			405	415
MIN	MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC! (POWER TOLERANCE +5W/-5W)				
Minimum	Power at MPP ¹	P _{MPP}	[W]	405	415
	Short Circuit Current ¹	I _{sc}	[A]	13.91	13.99
	Open Circuit Voltage ¹	V _{oc}	[V]	37.09	37.14
	Current at MPP	I _{MPP}	[A]	13.23	13.37
	Voltage at MPP	V _{MPP}	[V]	30.62	31.05
	Efficiency ¹	η	[%]	≥20.7	≥21.3

MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT²

Minimum	Power at MPP	P _{MPP}	[W]	303.8	311.3
	Short Circuit Current	I _{sc}	[A]	11.21	11.27
	Open Circuit Voltage	V _{oc}	[V]	34.97	35.03
	Current at MPP	I _{MPP}	[A]	10.41	10.53
	Voltage at MPP	$V_{\rm MPP}$	[V]	29.20	29.56

1Measurement tolerances P_{MPP} ±3%; I_{sc}; V_{oc} ±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

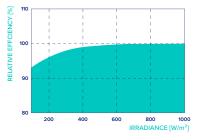
Qcells PERFORMANCE WARRANTY



At least 98% 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.

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 Isc [%/K] +0.04 Temperature Coefficient of V_{oc} β [%/K] -0.27 α Temperature Coefficient of P [%/K] -0.34 Nominal Module Operating Temperature NMOT [°C] 43±3 γ

Properties for System Design

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

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	-40°C - +85°C
Max. Test Load, Push/Pull		[Pa]	8100/4000	on Continuous Duty	

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. Hanwha Q CELLS Australia Pty Ltd. Suite 1, Level 1, 15 Blue Street, North Sydney, NSW 2060, Australia I TEL +61 02 9016 3033 I EMAIL inquiry.aus@qcells.com I WEB www.qcells.com/au/

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