Q.MAXX-G4+ SERIES



405-415 Wp | 108 Cells 21.6 % Maximum Module Efficiency

MODEL Q.MAXX-G4+





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 1700 mm, Q.MAXX-G4+ provides with easier system designs and installations.



Breaking the 21% efficiency barrier

Q.ANTUM DUO Z technology with zero gap cell layout boosts module efficiency up to 21.6 %.



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:



Rooftop arrays on residential buildings



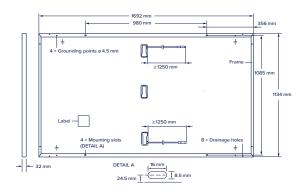
Rooftop arrays on commercial/industrial buildings



Q.MAXX-G4+ SERIES

Mechanical Specification

Format	1692 mm × 1134 mm × 32 mm (including frame)
Weight	20.9 kg
Front Cover	3.2 mm thermally pre-stressed glass with anti-reflection technology
Back Cover	Composite film
Frame	Black anodised aluminium
Cell	6×18 monocrystalline Q.ANTUM solar half cells
Junction box	53-101mm × 32-60mm × 15-18mm Protection class IP67, with bypass diodes
Cable	4 mm^2 Solar cable; (+) \geq 1250 mm, (-) \geq 1250 mm
Connector	Stäubli MC4, Hanwha Q CELLS HQC4; IP68



Electrical Characteristics

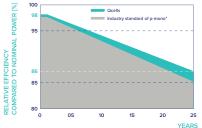
PC	WER CLASS			405	415	
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC ¹ (POWER TOLERANCE +5 W/-5 W)						
	Power at MPP ¹	P _{MPP}	[W]	405	415	
	Short Circuit Current ¹	I _{sc}	[A]	13.57	13.65	
- unu	Open Circuit Voltage ¹	V _{oc}	[V]	37.18	37.24	
linir	Current at MPP	I _{MPP}	[A]	12.97	13.11	
2	Voltage at MPP	V _{MPP}	[V]	31.22	31.65	
	Efficiency ¹	η	[%]	≥21.1	≥21.6	

MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT²

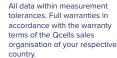
Minimum	Power at MPP	P _{MPP}	[W]	303.8	311.3
	Short Circuit Current	I _{SC}	[A]	10.94	11.00
	Open Circuit Voltage	V _{oc}	[V]	35.07	35.12
	Current at MPP	I _{MPP}	[A]	10.22	10.35
	Voltage at MPP	$V_{\rm MPP}$	[V]	29.72	30.09

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

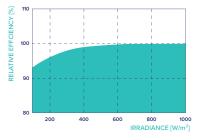
Qcells PERFORMANCE WARRANTY



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.



PERFORMANCE AT LOW IRRADIANCE



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

TEMPERATURE COEFFICIENTS

*Standard terms of guarantee for the 5 PV companies with the

highest production capacity in 2021 (February 2021)

Temperature Coefficient of I _{sc}	α	[%/K]	+0.04	Temperature Coefficient of V _{oc}	β	[%/K]	-0.27
Temperature Coefficient of P _{MPP}	γ	[%/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]	5400/2660	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 | TEL +61 02 9016 3033 | EMAIL inquiry.aus@qcells.com | WEB www.qcells.com/au/ specifications subject to technical changes © Ocells Q.MAXX-64+_400-410_32T_2022-07_Rev01_AU