# Q.MAXX-G5+ SERIES



### 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 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-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

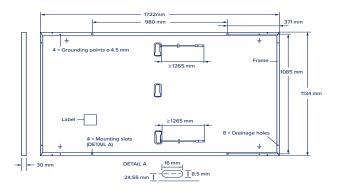


#### The ideal solution for:

## 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

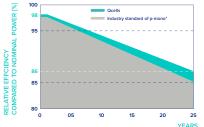
POWER CLASS									
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC <sup>1</sup> (POWER TOLERANCE +5 W/-5 W)									
Minimum	Power at MPP <sup>1</sup>	P <sub>MPP</sub>	[W]	415					
	Short Circuit Current <sup>1</sup>	I <sub>sc</sub>	[A]	13.99					
	Open Circuit Voltage <sup>1</sup>	V <sub>oc</sub>	[V]	37.14					
	Current at MPP	IMPP	[A]	13.37					
	Voltage at MPP	V <sub>MPP</sub>	[V]	31.05					
	Efficiency <sup>1</sup>	η	[%]	≥21.3					

#### MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT<sup>2</sup>

	Power at MPP	P <sub>MPP</sub> [W]	311.3
Ę	Short Circuit Current	I <sub>sc</sub> [A]	11.27
ji j	Open Circuit Voltage	V <sub>oc</sub> [V]	35.03
Mir	Current at MPP	I <sub>MPP</sub> [A]	10.53
	Voltage at MPP	V MPP[V]	29.56
Ma			

Measurement tolerances P = Measurement toleran

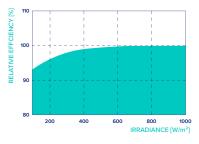
#### **Qcells PERFORMANCE WARRANTY**



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 ( $25 \,^\circ$ C, 1000 W/m<sup>2</sup>).

#### **TEMPERATURE COEFFICIENTS** Temperature Coefficient of Isc [%/K] +0.04 Temperature Coefficient of V<sub>oc</sub> 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 <sub>SYS</sub>	[V]	1000	PV module classification	Class II
Maximum Reverse Current	I <sub>R</sub>	[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 | TEL +61 02 9016 3033 | EMAIL inquiry.aus@qcells.com | WEB www.qcells.com/au/

### **Qcells**