

powered by

**Q.ANTUM DUO Z**

# Q.MAXX-G3

## 375-395

ENDURING HIGH  
PERFORMANCE



**Q CELLS**  
Yield Security



### BREAKING THE 20% EFFICIENCY BARRIER

Q.ANTUM DUO Z Technology with zero gap cell layout boosts module efficiency up to 21.1%.



### INNOVATIVE ALL-WEATHER TECHNOLOGY

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



### ENDURING HIGH PERFORMANCE

Long-term yield security with Anti LID Technology, Hot-Spot Protect and Traceable Quality Tra.Q™.



### EXTREME WEATHER RATING

High-tech aluminium alloy frame, certified for high snow (5400 Pa) and wind loads (4000 Pa).



### A RELIABLE INVESTMENT

Inclusive 15-year product warranty and 25-year linear performance warranty<sup>1</sup>.



### STATE OF THE ART MODULE TECHNOLOGY

Q.ANTUM DUO combines cutting edge cell separation and innovative wiring with Q.ANTUM Technology.

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

### THE IDEAL SOLUTION FOR:



Rooftop arrays on residential buildings



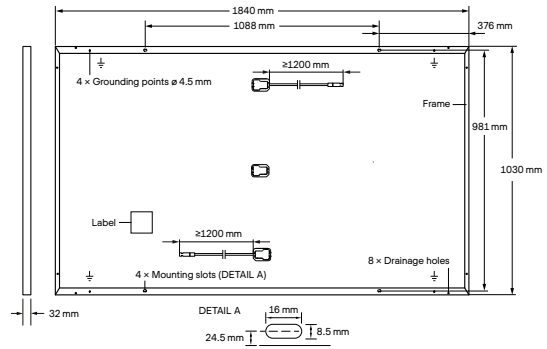
Rooftop arrays on commercial / industrial buildings

Engineered in Germany

**Q CELLS**

## MECHANICAL SPECIFICATION

Format	1840 mm × 1030 mm × 32 mm (including frame)
Weight	19.5 kg
Front Cover	2.8 mm thermally pre-stressed glass with anti-reflection technology
Back Cover	Composite film
Frame	Black anodised aluminium
Cell	6 × 22 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; (+) ≥ 1200 mm, (-) ≥ 1200 mm
Connector	Stäubli MC4; IP68

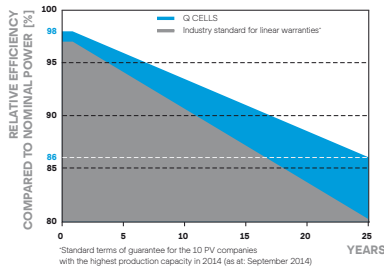


## ELECTRICAL CHARACTERISTICS

POWER CLASS			375	380	385	390	395
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC <sup>1</sup> (POWER TOLERANCE +5 W / -0 W)							
Minimum	Power at MPP <sup>1</sup>	$P_{MPP}$ [W]	375	380	385	390	395
	Short Circuit Current <sup>1</sup>	$I_{SC}$ [A]	10.62	10.65	10.68	10.71	10.74
	Open Circuit Voltage <sup>1</sup>	$V_{OC}$ [V]	44.96	44.99	45.03	45.06	45.10
	Current at MPP	$I_{MPP}$ [A]	10.09	10.14	10.20	10.26	10.32
	Voltage at MPP	$V_{MPP}$ [V]	37.18	37.46	37.74	38.01	38.29
	Efficiency <sup>1</sup>	$\eta$ [%]	≥ 19.8	≥ 20.1	≥ 20.3	≥ 20.6	≥ 20.8
MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT <sup>2</sup>							
Minimum	Power at MPP	$P_{MPP}$ [W]	280.8	284.6	288.3	292.0	295.8
	Short Circuit Current	$I_{SC}$ [A]	8.55	8.58	8.60	8.63	8.65
	Open Circuit Voltage	$V_{OC}$ [V]	42.39	42.43	42.46	42.50	42.53
	Current at MPP	$I_{MPP}$ [A]	7.93	7.99	8.04	8.09	8.14
	Voltage at MPP	$V_{MPP}$ [V]	35.39	35.64	35.87	36.11	36.34

<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 • 2800 W/m<sup>2</sup>, NMOT, spectrum AM 1.5

### Q CELLS PERFORMANCE WARRANTY

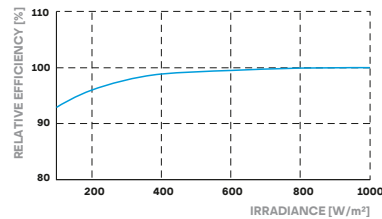


At least 98% of nominal power during first year. Thereafter max. 0.5% degradation per year. At least 93.5% of nominal power up to 10 years. At least 86% of nominal power up to 25 years.

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

<sup>1</sup>Standard terms of guarantee for the 10 PV companies with the highest production capacity in 2014 (as at September 2014)

### 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]	-0.35	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]	3600 / 2660	Permitted Module Temperature on Continuous Duty	-40°C - +85°C
Max. Test Load, Push / Pull	[Pa]	5400 / 4000		

## QUALIFICATIONS AND CERTIFICATES

IEC 61215:2016;  
IEC 61730:2016.  
This data sheet complies with DIN EN 50380.  
Certification holder:  
Hanwha Q CELLS Australia Pty Ltd



www.tuv.com  
ID 1111225531

## PACKAGING INFORMATION

Vertical packaging	1891 mm	1130 mm	1200 mm	687.5 kg	28 pallets	24 pallets	33 modules
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**Note:** Installation instructions must be followed. See the installation and operating manual or contact our technical service department for further information on approved installation and use of this product.

**Made in China**

**Hanwha Q CELLS Australia Pty Ltd**

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Engineered in Germany

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