



# Q.ANTUM Q.PLUS-G4.3 285W SOLAR PANELS

Q.PLUS-G4.3 285

The Q.PLUS-G4.3 285 panel is the ideal solution for all applications, thanks to its innovative Q.ANTUM cell technology. It is designed to achieve the best performance under real conditions - even with low radiation intensity and on clear, hot summer days.

Q Cells offers German engineering quality with superior yield security.



**Q CELLS**  
YIELD SECURITY

- ✓ ANTI PID TECHNOLOGY (APT)
- ✓ HOT-SPOT PROTECT (HSP)
- ✓ TRACEABLE QUALITY (TRA.Q™)
- ✓ ANTI LID TECHNOLOGY (ALT)



**Q CELLS**



**Q.ANTUM TECHNOLOGY  
FOR HIGHER YIELD  
PER SURFACE AREA**

## HOW YOU BENEFIT



### INNOVATIVE

Innovative all-weather technology with excellent low-light and temperature behaviour.



### HIGH PERFORMANCE

Long-term yield security with anti-LID and anti-PID Technology<sup>^</sup>, Hot-Spot Protect and Traceable Quality Tra.Q™.



### EXTREME WEATHER RATING

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



### LEASING OPTIONS

Solahart offers a range of competitive leasing options.

## Technical Data

### MODEL Q.ANTUM Q.PLUS G4.3 - 285W SOLAR PANEL

#### Mechanical Data

Dimensions (H x W x D)	1670 x 1000 x 32 mm
Weight	18.5 Kg
Front Cover	3.2 mm thermally pre-stressed glass with anti-reflection technology
Back Cover	Composite film
Frame	Anodised Aluminium
Cell	6 x 10 Q.ANTUM solar cells
Junction Box	Protection class $\geq$ IP67, with bypass diodes
Cable	4 mm <sup>2</sup> solar cable; (+) $\geq$ 1000 mm, $\geq$ (-) 1000 mm
Connector	Multi-Contact MC4, IP68

#### Electrical Data

Minimum performance at standard test conditions, STC <sup>(1)</sup> (Power Tolerance +5 W / -0 W)		Minimum performance at normal module operating temperature, NMOT <sup>(3)</sup>	
Power at MPP <sup>(2)</sup> - P <sub>MPP</sub>	285 Wp	Power at MPP - P <sub>MPP</sub>	210.7 Wp
Short circuit current <sup>#</sup> - I <sub>sc</sub>	9.46 A	Short circuit current <sup>#</sup> - I <sub>sc</sub>	7.63 A
Open circuit voltage <sup>#</sup> - V <sub>oc</sub>	39.22 V	Open circuit voltage <sup>#</sup> - V <sub>oc</sub>	36.61 V
Current at MPP <sup>#</sup> - I <sub>MPP</sub>	8.91 A	Current at MPP <sup>#</sup> - I <sub>MPP</sub>	6.99 A
Voltage at MPP <sup>#</sup> - V <sub>MPP</sub>	31.99 V	Voltage at MPP <sup>#</sup> - V <sub>MPP</sub>	30.15 V
Efficiency - $\eta$	$\geq$ 17.1 %		

<sup>(1)</sup> 1000 W/m<sup>2</sup>, 25°C, spectrum AM 1.5G. <sup>(2)</sup> Measurement tolerances STC  $\pm$  3 %; NOC  $\pm$  5% <sup>(3)</sup> 800W/m<sup>2</sup>, NOCT, spectrum AM 1.5G <sup>#</sup> Typical values, actual values may differ.

#### Properties for System Design

Permitted module temperature on continuous duty	-40°C up to +85°C
Maximum system voltage - V <sub>sys</sub>	1000 V
Maximum reverse current - I <sub>r</sub>	20 A
Wind/snow load (in accordance with IEC 61215)	4000 / 5400 Pa
Safety class	II
Fire rating	C

#### Temperature Coefficients

Nominal operating cell temperature (NOCT)	45°C
Temperature coefficient of P <sub>MPP</sub> - $\gamma$	-0.40 % / °C
Temperature coefficient of V <sub>oc</sub> - $\beta$	-0.29 % / °C
Temperature coefficient of I <sub>sc</sub> - $\alpha$	+0.04 % / °C

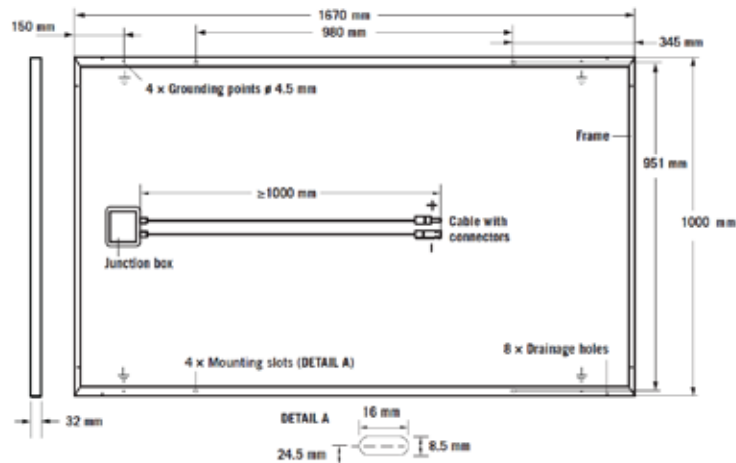
#### Qualifications and Certificates

IEC 61215 (Ed.2); IEC 61730 (Ed.1), Application class A.

#### Product Warranty

Solahart Warranty*	5 Years
Manufacturer's Warranty	12 Years

#### Dimensions - Measurements in mm



\*For full details see Solahart Owner's Guide & Installation Instructions. <sup>(1)</sup>APT test conditions according to IEC/TS 62804-1:2015, method B (-1500 V, 168 h).

Specifications and designs included in this data sheet are subject to change without notice.

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