

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

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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 ^, 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

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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 ² solar cable; (+) \geq 1000 mm, \geq (-) 1000 mm
Connector	Multi-Contact MC4, IP68

Electrical Data

Minimum performance at standard test conditions, STC	⁽¹⁾ (Power Tolerance +5 W / -0 W)	Minimum performance at normal module operating temperature, NMOT	⁽³⁾
Power at MPP ⁽²⁾ - P _{MPP}	285 Wp	Power at MPP - P _{MPP}	210.7 Wp
Short circuit current [*] - I _{sc}	9.46 A	Short circuit current [*] - I _{sc}	7.63 A
Open circuit voltage [*] - V _{oc}	39.22 V	Open circuit voltage [*] - V _{oc}	36.61 V
Current at MPP [*] - I _{MPP}	8.91 A	Current at MPP [*] - I _{MPP}	6.99 A
Voltage at MPP [*] - V _{MPP}	31.99 V	Voltage at MPP [*] - V _{MPP}	30.15 V
Efficiency - η	≥ 17.1 %		

⁽¹⁾ 1000 W/m², 25°C, spectrum AM 1.5G.

⁽²⁾ Measurement tolerances STC ± 3 %; NOC ± 5 %

⁽³⁾ 800W/m², NOCT, spectrum AM 1.5G

^{*} 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 _{sys}	1000 V
Maximum reverse current - I _R	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 _{MPP} - γ	-0.40 % / °C
Temperature coefficient of V _{oc} - β	-0.29 % / °C
Temperature coefficient of I _{sc} - α	+0.04 % / °C

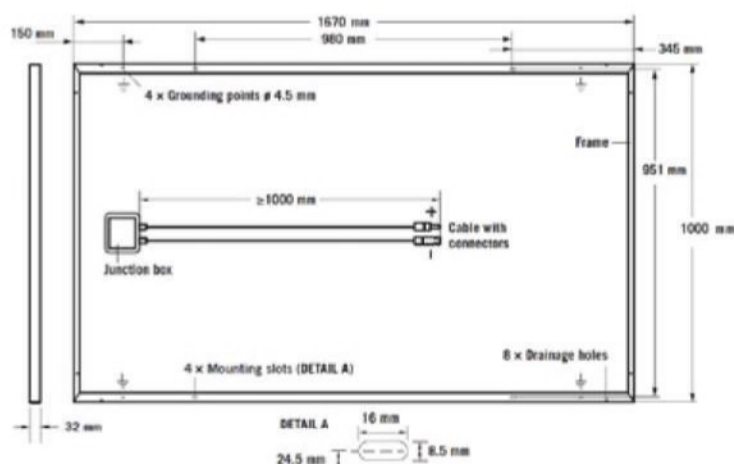
Qualifications and Certificates

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.

*APT test conditions according to IEC/TS 62804-1:2015, method B (-1500 V, 168 h).