

# Q.PRO-G4 255-265

## POLYCRYSTALLINE SOLAR MODULE

The new **Q.PRO-G4** is the result of the continued evolution of our Q.PRO family. Thanks to improved power yield, excellent reliability, and high-level operational safety, the new **Q.PRO-G4** generates electricity at a low cost (LCOE) and is suitable for a wide range of applications.



### LOW LEVELIZED COST OF ELECTRICITY

Higher yield per surface area and lower BOS costs thanks to higher power classes and an efficiency rate of up to 16.2 %.



### 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-PID Technology<sup>1</sup>, Hot-Spot-Protect and Traceable Quality Tra.Q™.



### LIGHT-WEIGHT QUALITY FRAME

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



### MAXIMUM COST REDUCTIONS

Up to 10 % lower logistics costs due to higher module capacity per box.



### SAFE ELECTRONICS

Protection against short circuits and thermally induced power losses due to breathable junction box and welded cables.



### A RELIABLE INVESTMENT

Inclusive 12-year product warranty and 25-year linear performance guarantee<sup>2</sup>.



### THE IDEAL SOLUTION FOR:



Rooftop arrays on residential buildings



Rooftop arrays on commercial/industrial buildings



Ground-mounted solar power plants

Engineered in **Germany**

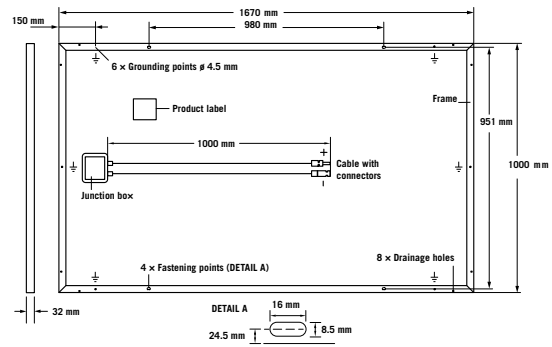
**Q CELLS**

<sup>1</sup> APT test conditions: Cells at -1000V against grounded, with conductive metal foil covered module surface, 25 °C, 168h

<sup>2</sup> See data sheet on rear for further information.

## MECHANICAL SPECIFICATION

<b>Format</b>	1670 mm × 1000 mm × 32 mm (including frame)
<b>Weight</b>	18.8 kg
<b>Front Cover</b>	3.2 mm thermally pre-stressed glass with anti-reflection technology
<b>Back Cover</b>	Composite film
<b>Frame</b>	Anodised aluminium
<b>Cell</b>	6 × 10 polycrystalline solar cells
<b>Junction Box</b>	110 mm × 115 mm × 23 mm Protection class IP67, with bypass diodes
<b>Cable</b>	4 mm <sup>2</sup> Solar cable; (+) ≥ 1000 mm, (-) ≥ 1000 mm
<b>Connector</b>	Tyco Solarlok PV4, IP68

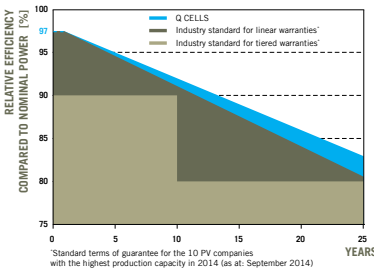


## ELECTRICAL CHARACTERISTICS

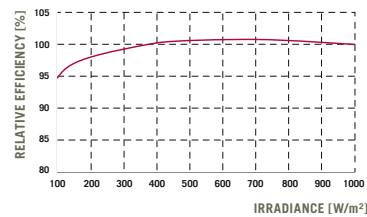
POWER CLASS			255	260	265
MINIMUM PERFORMANCE AT STANDARD TESTING CONDITIONS, STC <sup>1</sup> (POWER TOLERANCE +5W /- 0W)					
Minimum	<b>Power at MPP<sup>2</sup></b>	<b>P<sub>MPP</sub></b> [W]	255	260	265
	<b>Short Circuit Current*</b>	<b>I<sub>SC</sub></b> [A]	9.07	9.15	9.23
	<b>Open Circuit Voltage*</b>	<b>V<sub>OC</sub></b> [V]	37.54	37.77	38.01
	<b>Current at MPP*</b>	<b>I<sub>MPP</sub></b> [A]	8.45	8.53	8.62
	<b>Voltage at MPP*</b>	<b>V<sub>MPP</sub></b> [V]	30.18	30.46	30.75
	<b>Efficiency<sup>2</sup></b>	<b>η</b> [%]	≥15.3	≥15.6	≥15.9
MINIMUM PERFORMANCE AT NORMING OPERATING CONDITIONS, NOC <sup>3</sup>					
Minimum	<b>Power at MPP<sup>2</sup></b>	<b>P<sub>MPP</sub></b> [W]	188.3	192.0	195.7
	<b>Short Circuit Current*</b>	<b>I<sub>SC</sub></b> [A]	7.31	7.38	7.44
	<b>Open Circuit Voltage*</b>	<b>V<sub>OC</sub></b> [V]	34.95	35.16	35.38
	<b>Current at MPP*</b>	<b>I<sub>MPP</sub></b> [A]	6.61	6.68	6.75
	<b>Voltage at MPP*</b>	<b>V<sub>MPP</sub></b> [V]	28.48	28.75	29.01

<sup>1</sup>1000 W/m<sup>2</sup>, 25 °C, spectrum AM 1.5G    <sup>2</sup>Measurement tolerances STC ±3 %; NOC ±5 %    <sup>3</sup>800 W/m<sup>2</sup>, NOCT, spectrum AM 1.5G    \* typical values, actual values may differ

## Q CELLS PERFORMANCE WARRANTY



## PERFORMANCE AT LOW IRRADIANCE



## TEMPERATURE COEFFICIENTS

<b>Temperature Coefficient of I<sub>SC</sub></b>	<b>α</b> [%/K]	+0.04	<b>Temperature Coefficient of V<sub>OC</sub></b>	<b>β</b> [%/K]	-0.30
<b>Temperature Coefficient of P<sub>MPP</sub></b>	<b>γ</b> [%/K]	-0.41	<b>Normal Operating Cell Temperature</b>	<b>NOCT</b> [°C]	45

## PROPERTIES FOR SYSTEM DESIGN

<b>Maximum System Voltage</b>	<b>V<sub>sys</sub></b> [V]	1000	<b>Safety Class</b>	II
<b>Maximum Reverse Current</b>	<b>I<sub>r</sub></b> [A]	20	<b>Fire Rating</b>	C
<b>Wind/Snow Load (in accordance with IEC 61215)</b>	[Pa]	4000/5400	<b>Permitted Module Temperature On Continuous Duty</b>	-40 °C up to +85 °C

## QUALIFICATIONS AND CERTIFICATES

VDE Quality Tested, IEC 61215 (Ed. 2); IEC 61730 (Ed. 1), Application class A  
This data sheet complies with DIN EN 50380.



## PARTNER

**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.

Hanwha Q CELLS GmbH  
Sonnenallee 17-21, 06766 Bitterfeld-Wolfen, Germany | TEL +49 (0)3494 66 99-23444 | FAX +49 (0)3494 66 99-23000 | EMAIL sales@q-cells.com | WEB www.q-cells.com

Engineered in Germany

