

## POLYCRYSTALLINE SOLAR MODULE

# Q.PRO-G2 260-270

Reliability and safety

The **Q.PRO-G2** solar module with power classes up to 270 Wp is one of the strongest 60-cell modules of its type on the market globally. But there is even more to our polycrystalline modules. Only Q CELLS offers German engineering quality with our unique triple Yield Security.

### YOUR EXCLUSIVE TRIPLE YIELD SECURITY

- **Anti PID Technology (APT)** reliably prevents power loss resulting from unwanted leakage currents (potential-induced degradation)<sup>1</sup>.
- **Hot-Spot Protect (HSP)** prevents yield losses and reliably protects against module fire.
- **Traceable Quality (Tra.Q™)** is the 'Finger Print' of a solar cell. Tra.Q™ ensures continuous quality control throughout the entire production process from cells to modules while making Q CELLS solar modules forgery proof.

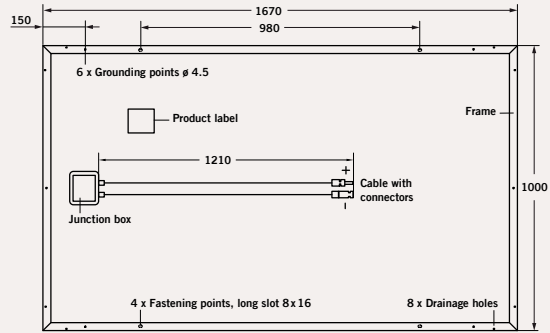
### ONE MORE ADVANTAGE FOR YOU

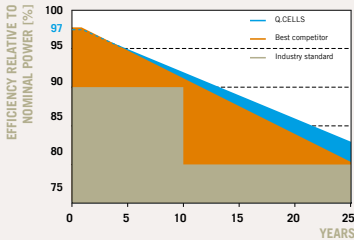
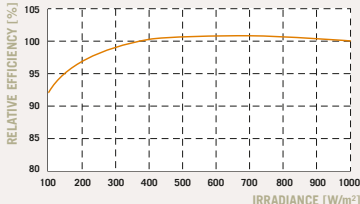
- **Controlled quality:** Q.PRO-G2 modules continuously pass the most stringent testing program in the PV sector and carry the quality certificate 'VDE Quality Tested' awarded by the Association of German Engineers.
- **Guaranteed performance:** Q CELLS offers the best warranties on the market. A 12-year product warranty plus a 25-year linear performance warranty<sup>2</sup>.



<sup>1</sup> APT test conditions: Cells at -1000 V against grounded, with conductive metal foil covered module surface, 25 °C, 168 h (TÜV test conditions)  
<sup>2</sup> See data sheet on rear for further information.

MECHANICAL SPECIFICATION	
<b>Format</b>	1670 mm x 1000 mm x 50 mm (including frame)
<b>Weight</b>	19.8 kg
<b>Front Cover</b>	3.2 mm thermally pre-stressed glass with antireflection technology
<b>Back Cover</b>	Composite film
<b>Frame</b>	Anodised aluminum
<b>Cell</b>	6 x 10 polycrystalline solar cells
<b>Junction box</b>	116 mm x 153 mm x 23 mm Protection class IP67, with bypass diodes
<b>Cable</b>	4 mm <sup>2</sup> Solar cable; (+) 1210 mm, (-) 1210 mm
<b>Connector</b>	SOLARLOK PV4, IP68



ELECTRICAL CHARACTERISTICS							
PERFORMANCE AT STANDARD TEST CONDITIONS (STC: 1000 W/m², 25 °C, AM 1.5 G SPECTRUM) <sup>1</sup>							
NOMINAL POWER (+5 W/-0 W)		[W]	260	265	270		
Average Power	P <sub>MPP</sub>	[W]	262.5	267.5	272.5		
Short Circuit Current	I <sub>SC</sub>	[A]	9.12	9.21	9.30		
Open Circuit Voltage	V <sub>OC</sub>	[V]	38.21	38.43	38.64		
Current at P <sub>MPP</sub>	I <sub>MPP</sub>	[A]	8.70	8.82	8.95		
Voltage at P <sub>MPP</sub>	V <sub>MPP</sub>	[V]	30.18	30.32	30.46		
Efficiency (Nominal Power)	η	[%]	≥ 15.6	≥ 15.9	≥ 16.2		
PERFORMANCE AT NORMAL OPERATING CELL TEMPERATURE (NOCT: 800 W/m², 47 ± 3 °C, AM 1.5 G SPECTRUM) <sup>2</sup>							
NOMINAL POWER (+5 W/-0 W)		[W]	260	265	270		
Average Power	P <sub>MPP</sub>	[W]	191.4	195.1	198.7		
Short Circuit Current	I <sub>SC</sub>	[A]	7.36	7.43	7.50		
Open Circuit Voltage	V <sub>OC</sub>	[V]	35.09	35.29	35.49		
Current at P <sub>MPP</sub>	I <sub>MPP</sub>	[A]	6.95	7.04	7.14		
Voltage at P <sub>MPP</sub>	V <sub>MPP</sub>	[V]	27.56	27.70	27.83		
<sup>1</sup> Measurement tolerances STC: ± 3 % (P <sub>MPP</sub> ); ± 10 % (I <sub>SC</sub> , V <sub>OC</sub> , I <sub>MPP</sub> , V <sub>MPP</sub> )			<sup>2</sup> Measurement tolerances NOCT: ± 5 % (P <sub>MPP</sub> ); ± 10 % (I <sub>SC</sub> , V <sub>OC</sub> , I <sub>MPP</sub> , V <sub>MPP</sub> )				
Q CELLS PERFORMANCE WARRANTY			PERFORMANCE AT LOW IRRADIANCE				
 <p>At least 97 % of nominal power during first year. Thereafter max. 0.6 % degradation per year. At least 92 % of nominal power after 10 years. At least 83 % of nominal power after 25 years.</p> <p>All data within measurement tolerances. Full warranties in accordance with the warranty terms of the Q CELLS sales organization of your respective country.</p>			 <p>The typical change in module efficiency at an irradiance of 200 W/m² in relation to 1000 W/m² (both at 25 °C and AM 1.5 G spectrum) is -3 % (relative).</p>				
TEMPERATURE COEFFICIENTS (AT 1000 W/m², 25 °C, AM 1.5 G SPECTRUM)							
Temperature Coefficient of I <sub>SC</sub>	α	[%/K]	+0.04	Temperature Coefficient of V <sub>OC</sub>	β	[%/K]	-0.33
Temperature Coefficient of P <sub>MPP</sub>	γ	[%/K]	-0.43				

PROPERTIES FOR SYSTEM DESIGN				
Maximum System Voltage V <sub>sys</sub>	[V]	1000	Safety Class	II
Maximum Reverse Current I <sub>r</sub>	[A]	20	Fire Rating	C
Wind/Snow Load (in accordance with IEC 61215)	[Pa]	5400	Permitted module temperature on continous duty	-40 °C up to +85 °C

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

**NOTE:** Installation instructions must be followed. See the installation and operating manual or contact the technical service for further information on approved installation and use of this product.