Q.PRO-G3 250-265

POLYCRYSTALLINE SOLAR MODULE

The new Q.PRO-G3 is the reliable evergreen for all applications. The third module generation from Q CELLS has been optimised across the board: improved output yield, higher operating reliability and durability, quicker installation and more intelligent design.

INNOVATIVE ALL-WEATHER TECHNOLOGY

• Maximum yields with excellent lowlight and temperature behaviour.

RELIABILITY AND HIGH PERFORMANCE

- Long-term Yield Security due to Anti PID Technology¹, Hot-Spot Protect, and Traceable Quality Tra.Q[™].
- Long-term stability due to VDE Quality Tested – the strictest test program.

SAFE ELECTRONICS

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

ANTI-REFLECTIVE COATING TECHNOLOGY

• Reduction of light reflection by 50%, plus long-term corrosion resistance due to high quality Sol-Gel roller coating processing.

LIGHTWEIGHT QUALITY FRAME

• Stability at wind loads of up to 5400 Pa with a module weight of just 19 kg due to slim frame design with high-tech alloy.

MAXIMUM COST REDUCTIONS

• Up to 31 % lower logistics costs due to higher module capacity per box.

EXTENDED WARRANTIES

• Investment security due to 12-year product warranty and 25-year linear performance warranty².





ID. 4003258

THE IDEAL SOLUTION FOR:

Rooftop arrays on commercial/industrial buildings





Rooftop arrays on residential buildings

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

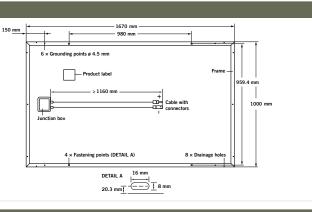
² See data sheet on rear for further information.



Engineered in Germany

MECHANICAL SPECIFICATION

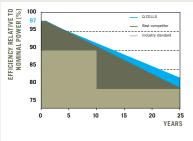
	Louisarion	
Format	1670 mm x 1000 mm x 35 mm (including frame)	
Weight	19 kg	
Front Cover	3.2 mm thermally pre-stressed glass with anti-reflection technology	
Back Cover	Composite film	
Frame	Anodised aluminium	
Cell	6 x 10 polycrystalline solar cells	
Junction box	110 mm x 115 mm x 23 mm Protection class IP67, with bypass diodes	
Cable	$4mm^2$ Solar cable; (+) $\geq\!1160mm$, (-) $\geq\!1160mm$	
Connector	SOLARLOK PV4, IP68	



ELECTRICAL CHARACTERISTICS

PERFORMANCE AT STANDARD TEST CONDITIONS (STC: 1000 W/m², 25°C, AM 1.5G SPECTRUM) ¹									
NOMINAL POWER (+5W/-0W)		[W]	250	255	260	265			
Average Power	P _{MPP}	[W]	252.5	257.5	262.5	267.5			
Short Circuit Current	I _{sc}	[A]	8.71	8.90	9.09	9.28			
Open Circuit Voltage	V _{oc}	[V]	37.49	37.83	38.18	38.52			
Current at P _{MPP}	I _{mpp}	[A]	8.21	8.37	8.53	8.69			
Voltage at P _{MPP}	V	[V]	30.76	30.77	30.78	30.79			
Efficiency (Nominal Power)	η	[%]	≥15.0	≥15.3	≥15.6	≥15.9			
PERFORMANCE AT NORMAL OPERATING CELL TEMPERATURE (NOCT: 800 W/m², 45 ±3°C. AM 1.5G SPECTRUM)²									
NOMINAL POWER (+5W/-0W)		[W]	250	255	260	265			
Average Power	P _{MPP}	[W]	186.0	189.7	193.4	197.1			
Short Circuit Current	I _{sc}	[A]	7.03	7.18	7.33	7.48			
Open Circuit Voltage	V _{oc}	[V]	34.90	35.22	35.54	35.86			
Current at P _{MPP}	I _{MPP}	[A]	6.44	6.56	6.68	6.80			
Voltage at P _{MPP}	V	[V]	28.89	28.92	28.94	28.97			
¹ Measurement tolerances STC: $\pm 3\%$ (P _{mpp}); $\pm 10\%$ (I _{sc} , V _{oc} , I _{mpp} , V _{mpp}) ² Measurement tolerances NOCT: $\pm 5\%$ (P _{mpp}); $\pm 10\%$ (I _{sc} , V _{oc} , I _{mpp} , V _{mpp})									

Q CELLS PERFORMANCE WARRANTY



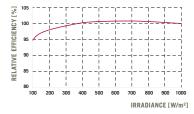
At least 97 % of nominal power during first year. Thereafter max. 0.6 % degradation per year. At least 92 % of nominal power after

10 years. At least 83% of nominal power after

25 years.

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

PERFORMANCE AT LOW IRRADIANCE



The typical change in module efficiency at an irradiance of 200 W/m² in relation to 1000 W/m² (both at 25 $^\circ\text{C}$ and AM 1.5G spectrum) is -2 % (relative).

TEMPERATURE COEFFICIENTS (AT 10	00 W/M², 3	25°C, AM 1.5G S	PECTRUM)			
Temperature Coefficient of I _{sc}	α	[%/K]	+0.04	Temperature Coefficient of V_{oc} β	[%/K]	-0.30
Temperature Coefficient of $\mathbf{P}_{_{\mathbf{MPP}}}$	γ	[%/K]	-0.42			
PROPERTIES FOR SYSTEM D	ESIGN					
Maximum System Voltage V _{sys}		[V]	1000	Safety Class	II	
Maximum Reverse Current I _R		[A]	20	Fire Rating	С	
Wind/Snow Load (in accordance with IEC 61215)		[Pa]	5400	Permitted module temperature on continuou duty	-40°C up to +85°C	
QUALIFICATIONS AND CERTI	FICATES	;		PARTNER		

QUALIFICATIONS AND CERTIFICATES

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

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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.

Hanwha Q CELLS Australia Pty Ltd

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