

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.

ENDURING 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.
- Increased flexibility due to MC4-intermateable connectors.

PROFIT-INCREASING GLASS 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.





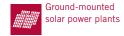


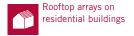




THE IDEAL SOLUTION FOR:



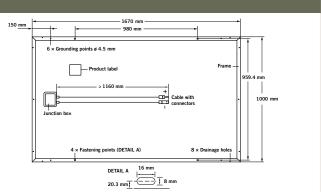




 $^{^1\,}$ APT test conditions: Cells at -1000 V against grounded, with conductive metal foil covered module surface, $25\,^{\circ}\text{C},\,168\,\text{h}$

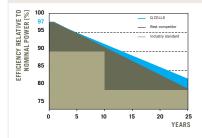


See data sheet on rear for further information.



ELECTRICAL CHARACTERISTICS							
PERFORMANCE AT STANDARD TEST CONDITIONS (STC: 1000 W/m², 25°C, AM 1.5 G SPECTRUM)¹							
NOMINAL POWER (+5 W/-0 W)		[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 _{MPP}	[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 1.5 G 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}	$V_{_{\mathrm{MPP}}}$	[V]	28.89	28.92	28.94	28.97	
$^{1} \text{ Measurement tolerances STC:} \pm 3\% (P_{mpp}); \pm 10\% (I_{sc}, V_{oc}, I_{mpp}, V_{mpp}) \\ ^{2} \text{ Measurement tolerances NOCT:} \pm 5\% (P_{mpp}); \pm 10\% (I_{sc}, V_{oc}, I_{mpp}, V_{mpp}) \\ ^{2} \text{ Measurement tolerances NOCT:} \pm 5\% (P_{mpp}); \pm 10\% (I_{sc}, V_{oc}, I_{mpp}, V_{mpp}) \\ ^{2} \text{ Measurement tolerances NOCT:} \pm 5\% (P_{mpp}); \pm 10\% (I_{sc}, V_{oc}, I_{mpp}, V_{mpp}) \\ ^{2} \text{ Measurement tolerances NOCT:} \pm 5\% (P_{mpp}); \pm 10\% (I_{sc}, V_{oc}, I_{mpp}, V_{mpp}) \\ ^{2} \text{ Measurement tolerances NOCT:} \pm 5\% (P_{mpp}); \pm 10\% (I_{sc}, V_{oc}, I_{mpp}, V_{mpp}) \\ ^{2} \text{ Measurement tolerances NOCT:} \pm 5\% (P_{mpp}); \pm 10\% (I_{sc}, V_{oc}, I_{mpp}, V_{mpp}) \\ ^{2} \text{ Measurement tolerances NOCT:} \pm 5\% (P_{mpp}); \pm 10\% (I_{sc}, V_{oc}, I_{mpp}, V_{mpp}) \\ ^{2} \text{ Measurement tolerances NOCT:} \pm 5\% (P_{mpp}); \pm 10\% (I_{sc}, V_{oc}, I_{mpp}, V_{mpp}) \\ ^{2} \text{ Measurement tolerances NOCT:} \pm 5\% (P_{mpp}); \pm 10\% (I_{sc}, V_{oc}, I_{mpp}, V_{mpp}) \\ ^{2} \text{ Measurement tolerances NOCT:} \pm 5\% (P_{mpp}); \pm 10\% (I_{sc}, V_{oc}, I_{mpp}, V_{mpp}) \\ ^{2} \text{ Measurement tolerances NOCT:} \pm 5\% (P_{mpp}); \pm 10\% (I_{sc}, V_{oc}, I_{mpp}, V_{mpp}) \\ ^{2} \text{ Measurement tolerances NOCT:} \pm 5\% (P_{mpp}); \pm 10\% (P_{m$							

Q CELLS PERFORMANCE WARRANTY



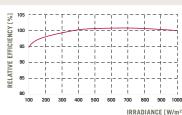
At least 97 % of nominal power during first year. Thereafter max. 0.6 % degradation per year

dation 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 °C and AM 1.5G spectrum) is -2% (relative).

TEMPERATURE COEFFICIENTS (AT 1000 W/M², 25 °C, AM 1.5 G SPECTRUM)

Temperature Coefficient of \mathbf{I}_{sc}	α	[%/K]	+0.04	Temperature Coefficient of \mathbf{V}_{oc}	β	[%/K]	-0.30
Temperature Coefficient of P	γ	[%/K]	-0.42				

PROPERTIES FOR SYSTEM DESIGN						
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 continuous 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 our technical service department for further information on approved installation and use of this product.

Hanwha Q CELLS GmbH

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