

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.
- Increased efficiency due to world record-holding cell concept Q.ANTUM.

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:

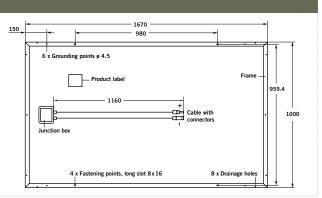






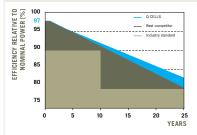
- $^1\,$ APT test conditions: Cells at -1000V against grounded, with conductive metal foil covered module surface, $25\,^{\circ}\text{C},\,168\,\text{h}$
- See data sheet on rear for further information.





ELECTRICAL CHARACTERISTICS							
PERFORMANCE AT STANDARD TEST CONDITIONS (STC: 1000 W/m², 25°C, AM 1.5 G SPECTRUM)¹							
NOMINAL POWER (+5W/-0W)		[W]	250	255	260	265	270
Average Power	P _{MPP}	[W]	252.5	257.5	262.5	267.5	272.5
Short Circuit Current	I _{sc}	[A]	8.71	8.90	9.09	9.28	9.47
Open Circuit Voltage	V _{oc}	[V]	37.49	37.83	38.18	38.52	38.86
Current at P _{MPP}	I _{MPP}	[A]	8.21	8.37	8.53	8.69	8.85
Voltage at P _{MPP}	\mathbf{V}_{MPP}	[V]	30.76	30.77	30.78	30.79	30.80
Efficiency (Nominal Power)	η	[%]	≥15.0	≥15.3	≥15.6	≥15.9	≥16.2
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	270
Average Power	P _{MPP}	[W]	186.0	189.7	193.4	197.1	200.8
Short Circuit Current	I _{sc}	[A]	7.03	7.18	7.33	7.48	7.63
Open Circuit Voltage	V _{oc}	[V]	34.90	35.22	35.54	35.86	36.18
Current at P _{MPP}	I _{MPP}	[A]	6.44	6.56	6.68	6.80	6.93
Voltage at P _{MPP}	$V_{_{\mathrm{MPP}}}$	[V]	28.89	28.92	28.94	28.97	28.99
$^{1} \text{ Measurement tolerances STC:} \pm 3\% \text{ (P}_{mpp}); \pm 10\% \text{ (I}_{sc}, \text{ V}_{oc}, \text{ I}_{mpp}, \text{ V}_{mpp})$ $^{2} \text{ Measurement tolerances NOCT:} \pm 5\% \text{ (P}_{mpp}); \pm 10\% \text{ (I}_{sc}, \text{ V}_{oc}, \text{ I}_{mpp}, \text{ V}_{mpp})$					I_{mpp}, V_{mpp}		

Q CELLS PERFORMANCE WARRANTY



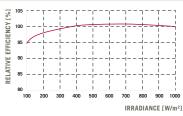
At least 97% of nominal power during first year. Thereafter max. 0.6% degradation per year.

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

PROPERTIES FOR SYSTEM DESIG	N			
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

Sonnenaliee 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

