Q.POWER-G5 260-280

POLYCRYSTALLINE SOLAR MODULE

The new Q.POWER-G5 is the result of the continued evolution of our polycrystalline solar modules. Thanks to improved power yield, excellent reliability and high-level operational safety, the new Q.POWER-G5 generates electricity at a low cost (LCOE) and is suitable for a wide range of applications.

SUPERIOR YIELD
High power output thanks to advanced 6-busbar technology and outstanding performance under real-life conditions.

LOW LEVELISED COST OF ELECTRICITY
Higher yield per surface area, lower BOS costs, higher power classes and an efficiency rate of up to 17.4 %.

INNOVATIVE ALL-WEATHER TECHNOLOGY
Optimal yields, whatever the weather with excellent low-light and temperature behaviour.

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

A RELIABLE INVESTMENT
Inclusive 12-year product warranty and 25-year linear performance warranty[1].

EUPD RESEARCH TOP BRAND PV MODULES AUSTRALIA 2016

EUPD RESEARCH TOP BRAND PV MODULES AUSTRALIA 2017

Photon YIELD MEASUREMENT
Q CELLS
Best polycrystalline solar module 2014
Q.PRO-G2 235
174 modules tested

[1] See data sheet on rear for further information.

THE IDEAL SOLUTION FOR:

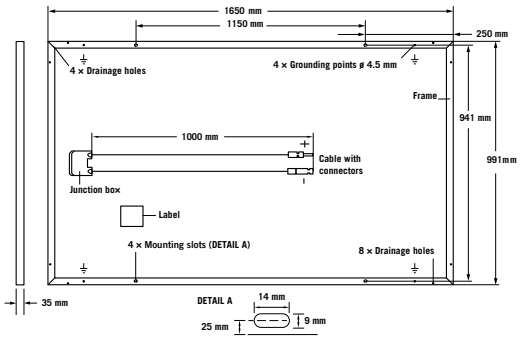
- Rooftop arrays on residential buildings
- Ground-mounted solar power plants
- Rooftop arrays on commercial / industrial buildings

Engineered in **Germany**

Q CELLS

MECHANICAL SPECIFICATION

Format	1650 mm × 991 mm × 35 mm (including frame)
Weight	18 kg ±5 %
Front Cover	3.2 mm thermally pre-stressed glass with anti-reflection technology
Back Cover	Multi-layer composite sheet
Frame	Anodised aluminium
Cell	6 × 10 polycrystalline solar cells
Junction box	Protection class IP67 or IP68, with bypass diodes
Cable	4 mm² Solar cable; (+) ≥ 1000 mm, (-) ≥ 1000 mm
Connector	Tonglin TL-Cable01S, IP67

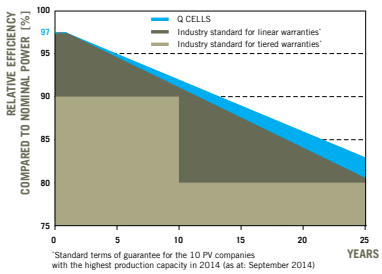


ELECTRICAL CHARACTERISTICS

POWER CLASS				260	265	270	275	280
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC[1] (POWER TOLERANCE +5 W / -0 W)								
Minimum	Power at MPP[2]	P_{MPP}	[W]	260	265	270	275	280
Minimum	Short Circuit Current*	I_{SC}	[A]	9.05	9.20	9.23	9.27	9.29
Minimum	Open Circuit Voltage*	V_{OC}	[V]	37.7	38.0	38.1	38.3	38.5
Minimum	Current at MPP*	I_{MPP}	[A]	8.45	8.58	8.69	8.79	8.87
Minimum	Voltage at MPP*	V_{MPP}	[V]	30.8	30.9	31.1	31.3	31.6
Minimum	Efficiency[2]	η	[%]	≥15.9	≥16.2	≥16.5	≥16.8	≥17.1
MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NOC[3]								
Minimum	Power at MPP[2]	P_{MPP}	[W]	191	195	199	202	206
Minimum	Short Circuit Current*	I_{SC}	[A]	7.32	7.44	7.47	7.50	7.51
Minimum	Open Circuit Voltage*	V_{OC}	[V]	35.4	35.6	35.7	35.9	36.1
Minimum	Current at MPP*	I_{MPP}	[A]	6.75	6.86	6.95	7.02	7.09
Minimum	Voltage at MPP*	V_{MPP}	[V]	28.3	28.4	28.6	28.8	29.1

[1] 1000 W/m², 25 °C, spectrum AM 1.5 G [2] Measurement tolerances STC ±3 %; NOC ±5 % [3] 800 W/m², NOCT, spectrum AM 1.5 G * typical values, actual values may differ

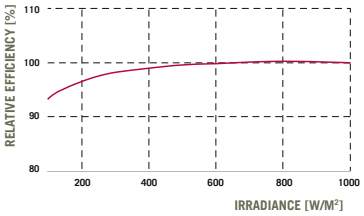
Q CELLS PERFORMANCE WARRANTY



At least 97 % of nominal power during first year. Thereafter max. 0.6 % degradation per year.
At least 91.6 % of nominal power up to 10 years.
At least 83.0 % of nominal power up to 25 years.

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

PERFORMANCE AT LOW IRRADIANCE



Typical module performance under low irradiance conditions in comparison to STC conditions (25 °C, 1000 W/m²).

TEMPERATURE COEFFICIENTS

Temperature Coefficient of I_{SC}	α	[%/K]	+0.05	**Temperature Coefficient of V_{OC}**	β	[%/K]	-0.31
Temperature Coefficient of P_{MPP}	γ	[%/K]	-0.40	**Normal Operating Cell Temperature**	NOCT	[°C]	45±3

PROPERTIES FOR SYSTEM DESIGN

Maximum System Voltage	V_{SYS}	[V]	1000	**Safety Class**		II
Maximum Reverse Current	I_R	[A]	20	**Fire Rating**		C
Wind/Snow Load (Test-load in accordance with IEC 61215)		[Pa]	4000/5400	**Permitted Module Temperature On Continuous Duty**		-40 °C up to +85 °C

QUALIFICATIONS AND CERTIFICATES

IEC 61215, IEC 61730, Conformity to CE, Application Class A

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.

Made in China

Hanwha Q CELLS Australia Pty Ltd
1402, 20 Berry St., North Sydney NSW 2060, Australia | TEL +61 (0) 2 9016 3033 | FAX +61 (0) 2 9016 3032 | EMAIL q-cells-australia@q-cells.com | WEB www.q-cells.com/au

Specifications subject to technical changes © Hanwha Q CELLS Q.POWER-G5_260-280_2017-06_Rev03_AU

Engineered in **Germany**