Q.POWER L-G5 315-335

POLYCRYSTALLINE SOLAR MODULE

The new Q.POWER L-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 L-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 17.5 %.

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 (2400 Pa).

MAXIMUM COST REDUCTIONS
Lower logistics costs due to higher module capacity per box.

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

EUPD RESEARCH TOP BRAND PV MODULES EUROPE 2017

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

pv magazine award 2017 top innovation

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

THE IDEAL SOLUTION FOR:

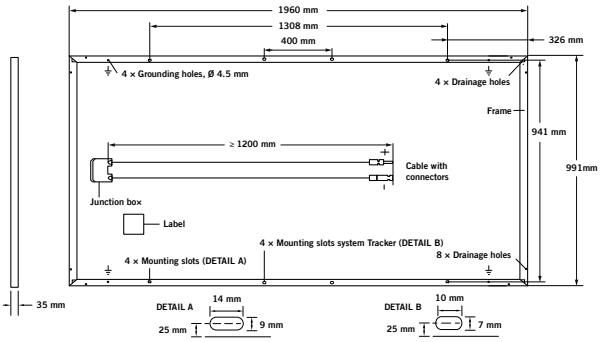
Ground-mounted solar power plants

Engineered in **Germany**

Q CELLS

MECHANICAL SPECIFICATION

Format	1960 mm × 991 mm × 35 mm (including frame)
Weight	22.5 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 × 12 polycrystalline solar cells
Junction box	Protection class IP67 or IP68, with bypass diodes
Cable	4 mm² Solar cable; (+) ≥ 1200 mm, (-) ≥ 1200 mm
Connector	Intermateable connector with H4, MC4

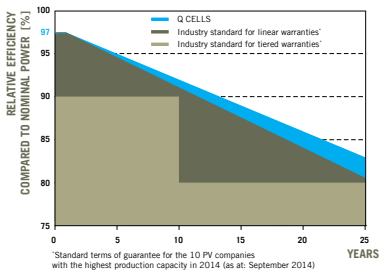


ELECTRICAL CHARACTERISTICS

POWER CLASS				315	320	325	330	335
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC[1] (POWER TOLERANCE +5 W / -0 W)								
Minimum	Power at MPP[2]	P_{MPP}	[W]	315	320	325	330	335
	Short Circuit Current*	I_{SC}	[A]	9.11	9.15	9.20	9.30	9.40
	Open Circuit Voltage*	V_{OC}	[V]	45.7	45.8	46.0	46.1	46.3
	Current at MPP*	I_{MPP}	[A]	8.50	8.61	8.67	8.76	8.87
	Voltage at MPP*	V_{MPP}	[V]	37.1	37.2	37.5	37.7	37.8
	Efficiency[2]	η	[%]	≥ 16.2	≥ 16.4	≥ 16.7	≥ 16.9	≥ 17.2
MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NOC[3]								
Minimum	Power at MPP[2]	P_{MPP}	[W]	232	235	239	243	247
	Short Circuit Current*	I_{SC}	[A]	7.37	7.40	7.44	7.52	7.60
	Open Circuit Voltage*	V_{OC}	[V]	42.9	43.0	43.1	43.2	43.4
	Current at MPP*	I_{MPP}	[A]	6.79	6.88	6.93	7.00	7.09
	Voltage at MPP*	V_{MPP}	[V]	34.1	34.2	34.5	34.7	34.8

[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

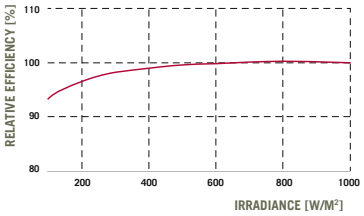
Q CELLS PERFORMANCE WARRANTY



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 (IEC), 1500 (IEC)	**Safety Class**	II
Maximum Reverse Current	I_R	[A]	20	**Fire Rating**	C
Push/Pull Load (Test-load in accordance with IEC 61215)		[Pa]	5400/2400	**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.

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Engineered in **Germany**