Q.PRIME L-G5 325-345

MONOCRYSTALLINE SOLAR MODULE

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

LOW LEVELIZED COST OF ELECTRICITY
Higher yield per surface area and lower BOS costs and higher power classes and an efficiency rate of up to 18.0 %.

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 2016

Photon
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:

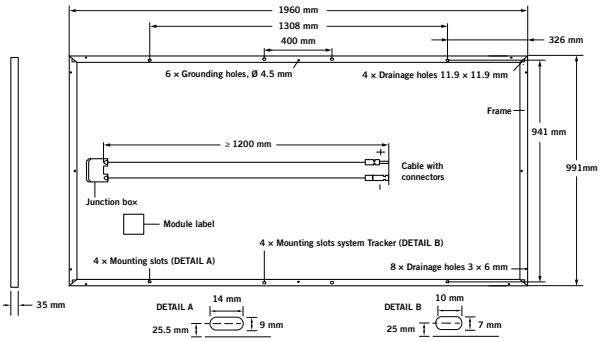
Ground-mounted solar power plants

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 monocrystalline solar cells
Junction box	Protection class IP67, with bypass diodes
Cable	4 mm² Solar cable; (+) ≥ 1200 mm, (-) ≥ 1200 mm
Connector	Intermateable connector with H4, MC4

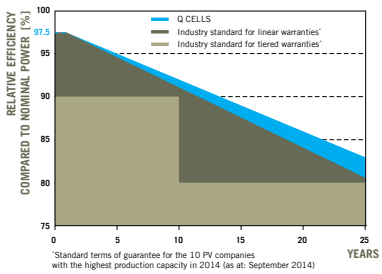


ELECTRICAL CHARACTERISTICS

POWER CLASS				325	330	335	340	345
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC[1] (POWER TOLERANCE +5 W / -0 W)								
Minimum	Power at MPP[2]	P_{MPP}	[W]	325	330	335	340	345
	Short Circuit Current*	I_{SC}	[A]	9.22	9.29	9.35	9.41	9.46
	Open Circuit Voltage*	V_{OC}	[V]	45.6	45.7	46.0	46.1	46.3
	Current at MPP*	I_{MPP}	[A]	8.67	8.76	8.84	8.91	8.99
	Voltage at MPP*	V_{MPP}	[V]	37.5	37.7	37.9	38.2	38.4
	Efficiency[2]	η	[%]	≥16.7	≥16.9	≥17.2	≥17.5	≥17.7
MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NOC[3]								
Minimum	Power at MPP[2]	P_{MPP}	[W]	239	243	246	250	254
	Short Circuit Current*	I_{SC}	[A]	7.46	7.51	7.56	7.61	7.65
	Open Circuit Voltage*	V_{OC}	[V]	42.8	42.9	43.1	43.2	43.4
	Current at MPP*	I_{MPP}	[A]	6.93	7.00	7.06	7.12	7.18
	Voltage at MPP*	V_{MPP}	[V]	34.5	34.7	34.9	35.1	35.3

[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

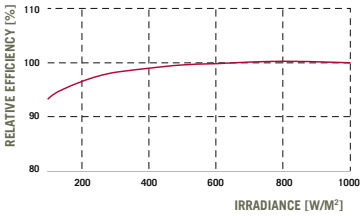
Q CELLS PERFORMANCE WARRANTY



At least 97 % of nominal power during first year. Thereafter max. 0.7 % degradation per year.
At least 90.5 % of nominal power up to 10 years.
At least 82 % 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 organisation 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

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]	2400/5400	**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.

Hanwha Q CELLS GmbH
Sonnenallee 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

Engineered in **Germany**