

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 warranty¹.









See data sheet on rear for further information.

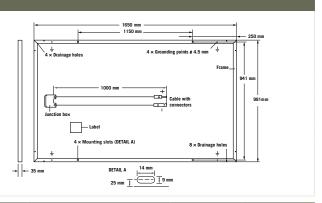
THE IDEAL SOLUTION FOR:











EL	ECTRICAL CHARACTERISTICS							
P0	WER CLASS			260	265	270	275	280
MII	NIMUM PERFORMANCE AT STANDARD TEST CON	DITIONS, STO	(POWER T	OLERANCE +5W/-0W	')			
	Power at MPP ²	P_{MPP}	[W]	260	265	270	275	280
	Short Circuit Current*	I _{sc}	[A]	9.05	9.20	9.23	9.27	9.29
mum	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
_	Voltage at MPP*	V_{MPP}	[V]	30.8	30.9	31.1	31.3	31.6
	Efficiency ²	η	[%]	≥15.9	≥16.2	≥16.5	≥16.8	≥17.1
MII	NIMUM PERFORMANCE AT NORMAL OPERATING	CONDITIONS,	NOC ³					
Minimum	Power at MPP ²	P_{MPP}	[W]	191	195	199	202	206
	Short Circuit Current*	I _{sc}	[A]	7.32	7.44	7.47	7.50	7.51
	Open Circuit Voltage*	V_{oc}	[V]	35.4	35.6	35.7	35.9	36.1
	Current at MPP*	I _{MPP}	[A]	6.75	6.86	6.95	7.02	7.09
	Voltage at MPP*	V_{MPP}	[V]	28.3	28.4	28.6	28.8	29.1

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

Q CELLS PERFORMANCE WARRANTY

To Standard terms of guarantee for the 10 PV companies with the highest production capacity in 2014 (as at September 2014)

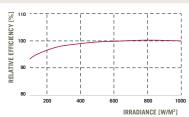
At least 97 % of nominal power during first year. Thereafter max. 0.6 % degradation per year.

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
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Temperature Coefficient of I _{sc}	α	[%/K]	+0.05	Temperature Coefficient of \mathbf{V}_{oc}	β	[%/K]	-0.31
Temperature Coefficient of P	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	С		
Push/Pull Load (Test-load in		[Pa]	5400/4000	Permitted Module Temperature	-40°C up to +85°C		

PARTNER

QUALIFICATIONS AND CERTIFICATES

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





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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