

The new Q.PRIME-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-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 LEVELIZED COST OF ELECTRICITY

Higher yield per surface area, lower BOS costs, 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 (4000 Pa).



A RELIABLE INVESTMENT

Inclusive 12-year product warranty and 25-year linear performance warranty¹.







See data sheet on rear for further information.

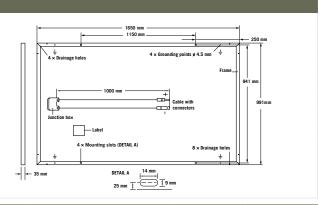
THE IDEAL SOLUTION FOR:











EL	ECTRICAL CHARACTERIS	STICS						
P0\	WER CLASS			270	275	280	285	290
MIN	NIMUM PERFORMANCE AT STAN	DARD TEST CONDITIONS, STC	1 (POWER TOLE	RANCE +5W/-0W	<i>I</i>)			
	Power at MPP ²	P_{MPP}	[W]	270	275	280	285	290
	Short Circuit Current*	I _{sc}	[A]	9.08	9.20	9.30	9.35	9.48
Minimum	Open Circuit Voltage*	V _{oc}	[V]	37.8	38.0	38.1	38.3	38.5
Min	Current at MPP*	I _{MPP}	[A]	8.63	8.74	8.84	8.94	9.04
	Voltage at MPP*	V_{MPP}	[V]	31.3	31.5	31.7	31.9	32.1
	Efficiency ²	η	[%]	≥16.5	≥16.8	≥17.1	≥17.4	≥17.7
MIN	MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NOC ³							
	Power at MPP ²	P_{MPP}	[W]	199	202	206	210	213
트	Short Circuit Current*	I _{sc}	[A]	7.34	7.44	7.52	7.56	7.67
Minimum	Open Circuit Voltage*	V _{oc}	[V]	35.5	35.6	35.7	35.9	36.1
Ξ	Current at MPP*	I _{MPP}	[A]	6.90	6.99	7.06	7.14	7.22
	Voltage at MPP*	\mathbf{V}_{MPP}	[V]	28.8	29.0	29.2	29.3	29.5
¹ 100	0 W/m², 25 °C, spectrum AM 1.5 G	² Measurement tolerances STC ±	3%; NOC ±5%	3 800 W/m², NOCT,	spectrum AM 1.5G	* typical values, act	ual values may differ	

Q CELLS PERFORMANCE WARRANTY

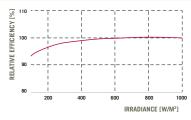
At least 9 first year. degradati At least 9 first year. degradati At least 9 first year. degradati At least 9 loosely standard for linear warranties at least 9 loosely standard for linear warranti

At least 97.0% of nominal power during first year. Thereafter max. 0.7% degradation per year. At least 90.7% of nominal power up to

At least 90.7% of nominal power up to 10 years.
At least 81.5% of nominal power up to

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 \mathbf{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	\mathbf{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 accordance with IEC 61215)		[Pa]	5400/4000	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





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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