

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.



# 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 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).



# **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<sup>1</sup>.







See data sheet on rear for further information.

### THE IDEAL SOLUTION FOR:









EL	ECTRICAL CHARACTERISTICS							
PO	WER CLASS			260	265	270	275	280
MII	NIMUM PERFORMANCE AT STANDARD TEST COND	TIONS, ST	C1 (POWER TO	DLERANCE +5W/-0W	1)			
Minimum	Power at MPP <sup>2</sup>	$\mathbf{P}_{\text{MPP}}$	[ <b>W</b> ]	260	265	270	275	280
	Short Circuit Current*	I <sub>sc</sub>	[A]	9.05	9.20	9.23	9.27	9.29
	Open Circuit Voltage*	$\mathbf{V}_{\mathrm{oc}}$	[ <b>V</b> ]	37.7	38.0	38.1	38.3	38.5
	Current at MPP*	I <sub>MPP</sub>	[A]	8.45	8.58	8.69	8.79	8.87
	Voltage at MPP*	$\mathbf{V}_{\text{MPP}}$	[ <b>V</b> ]	30.8	30.9	31.1	31.3	31.6
	Efficiency <sup>2</sup>	η	[%]	≥15.9	≥16.2	≥16.5	≥16.8	≥17.1
MII	NIMUM PERFORMANCE AT NORMAL OPERATING C	ONDITIONS	, NOC³					
Minimum	Power at MPP <sup>2</sup>	$\mathbf{P}_{\text{MPP}}$	[W]	191	195	199	202	206
	Short Circuit Current*	I <sub>sc</sub>	[A]	7.32	7.44	7.47	7.50	7.51
	Open Circuit Voltage*	$\mathbf{V}_{\mathrm{oc}}$	[ <b>V</b> ]	35.4	35.6	35.7	35.9	36.1
	Current at MPP*	I <sub>MPP</sub>	[A]	6.75	6.86	6.95	7.02	7.09
	Voltage at MPP*	$\mathbf{V}_{\text{MPP}}$	[ <b>V</b> ]	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

# DATE TO THE PROPERTY OF THE PR

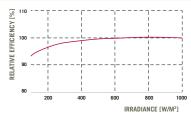
At least 97.5 % of nominal power during first year. Thereafter max. 0.7 % degradation per year.

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).

TEMPEDATIIDE	COEFFICIENTS
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Temperature Coefficient of I <sub>sc</sub>	α	[%/K]	+0.05	Temperature Coefficient of $\mathbf{V}_{\mathrm{oc}}$	β	[%/K]	-0.31
Temperature Coefficient of P <sub>MPP</sub>	γ	[%/K]	-0.40	Normal Operating Cell Temperature	NOCT	[°C]	45

PROPERTIES FOR SYSTEM DESIGN					
Maximum System Voltage	$\mathbf{V}_{sys}$	[V]	1000	Safety Class	II
Maximum Reverse Current	I <sub>R</sub>	[A]	20	Fire Rating	С
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





**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

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