

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>.



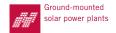




See data sheet on rear for further information.

# THE IDEAL SOLUTION FOR:









EL	ECTRICAL CHARACTERISTICS							
P0	WER CLASS			260	265	270	275	280
MII	NIMUM PERFORMANCE AT STANDARD TEST CON	DITIONS, STO	C1 (POWER T	OLERANCE +5W/-0	W)			
	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
Minimum	Open Circuit Voltage*	$\mathbf{V}_{\mathrm{oc}}$	[ <b>V</b> ]	37.7	38.0	38.1	38.3	38.5
E.	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 (	CONDITIONS,	NOC3					
Minimum	Power at MPP <sup>2</sup>	$\mathbf{P}_{\text{MPP}}$	[ <b>W</b> ]	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*	V <sub>oc</sub>	[ <b>V</b> ]	35.4	35.6	35.7	35.9	36.1
Ξ	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

# O S 10 15 20 25 Standard terms of guarantee for the 10 PV companies with the highest production capacity in 2014 (as at Seytember 2014)

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

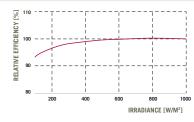
At least 90.5% of nominal power up to 10 years.
At least 82% of nominal power up to

25 years.

All data within measurement tolerance:

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  $^{\circ}$ C, 1000 W/m²).

TEMPERATURE	COEFFICIENTS
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Temperature Coefficient of I <sub>sc</sub>	α	[%/K]	+0.05	Temperature Coefficient of V <sub>oc</sub>	β	[%/K]	-0.31
Temperature Coefficient of P <sub>MDD</sub>	٧	[%/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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