

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 warranty<sup>1</sup>.



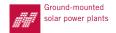




See data sheet on rear for further information.

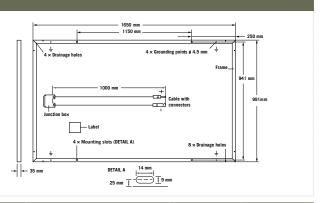
## THE IDEAL SOLUTION FOR:











EL	ECTRICAL CHARACTERISTICS							
P0	WER CLASS			270	275	280	285	290
MII	NIMUM PERFORMANCE AT STANDARD TEST CON	DITIONS, STO	C1 (POWER T	OLERANCE +5W/-0W	1)			
	Power at MPP <sup>2</sup>	$P_{\text{MPP}}$	[ <b>W</b> ]	270	275	280	285	290
	Short Circuit Current*	I <sub>sc</sub>	[A]	9.08	9.20	9.30	9.35	9.48
mum	Open Circuit Voltage*	$V_{oc}$	[ <b>V</b> ]	37.8	38.0	38.1	38.3	38.5
Minimum	Current at MPP*	I <sub>MPP</sub>	[A]	8.63	8.74	8.84	8.94	9.04
-	Voltage at MPP*	$V_{\text{MPP}}$	[ <b>V</b> ]	31.3	31.5	31.7	31.9	32.1
	Efficiency <sup>2</sup>	η	[%]	≥16.5	≥16.8	≥17.1	≥17.4	≥17.7
MII	NIMUM PERFORMANCE AT NORMAL OPERATING	CONDITIONS,	NOC3					
Minimum	Power at MPP <sup>2</sup>	$P_{\text{MPP}}$	[ <b>W</b> ]	199	202	206	210	213
	Short Circuit Current*	I <sub>sc</sub>	[A]	7.34	7.44	7.52	7.56	7.67
	Open Circuit Voltage*	$V_{oc}$	[ <b>V</b> ]	35.5	35.6	35.7	35.9	36.1
	Current at MPP*	I <sub>MPP</sub>	[A]	6.90	6.99	7.06	7.14	7.22
	Voltage at MPP*	$V_{\text{MPP}}$	[ <b>V</b> ]	28.8	29.0	29.2	29.3	29.5

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

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

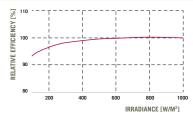
At least 97.0% of nominal power during first year. Thereafter max. 0.7% degradation per year. At least 90.7% of nominal power up to

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

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

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±3

PROPERTIES FOR SYSTEM DESIGN							
Maximum System Voltage	$\mathbf{V}_{sys}$	[ <b>V</b> ]	1000 (IEC), 1500 (IEC)	Safety Class	II		
Maximum Reverse Current	I <sub>R</sub>	[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**

PARTNER

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.

## Made in China

## Hanwha Q CELLS Australia Pty Ltd

1402, 20 Berry St., North Sydney NSW 2060, Australia | TEL +61(0)290163033 | FAX +61(0)290163032 | EMAIL q-cells-australia@q-cells.com | WEB www.q-cells.com.au

