





# **INNOVATIVE ALL-WEATHER TECHNOLOGY**

Optimal yields, whatever the weather with excellent low-light and temperature behaviour.



## **EXTREME WEATHER RATING**

High-tech aluminum alloy frame, tested to the extreme in Australia for Australian Conditions at James Cook University Cyclone Testing Station.



## A RELIABLE INVESTMENT

Inclusive 12-year product warranty and 25-year linear performance warranty<sup>1</sup>.

# THE IDEAL SOLUTION FOR:



Rooftop arrays on residential buildings

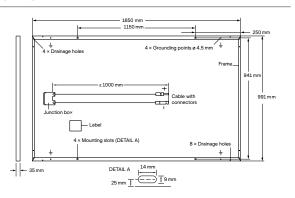




Ground-mounted solar power plants



<sup>&</sup>lt;sup>1</sup> See data sheet on rear for further information.



#### **ELECTRICAL CHARACTERISTICS**

PO	WER CLASS			260	265	270	275	280
MIN	IIMUM PERFORMANCE AT STANDARD	TEST CONDITIO	NS, STC <sup>1</sup> (P	OWER TOLERANCE	+5W/-0W)			
Minimum	Power at MPP¹	P <sub>MPP</sub>	[W]	260	265	270	275	280
	Short Circuit Current <sup>1</sup>	I <sub>sc</sub>	[A]	9.05	9.20	9.23	9.27	9.29
	Open Circuit Voltage <sup>1</sup>	V <sub>oc</sub>	[V]	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	V <sub>MPP</sub>	[V]	30.8	30.9	31.1	31.3	31.6
	Efficiency <sup>1</sup>	η	[%]	≥15.9	≥16.2	≥16.5	≥16.8	≥17.1
MIN	IIMUM PERFORMANCE AT NORMAL O	PERATING CONI	DITIONS, NI	MOT <sup>2</sup>				
Minimum	Power at MPP	P <sub>MPP</sub>	[W]	193	197	200	204	208
	Short Circuit Current	I <sub>sc</sub>	[A]	7.31	7.43	7.46	7.49	7.51
	Open Circuit Voltage	V <sub>oc</sub>	[V]	35.60	35.90	36.00	36.20	36.40
	Current at MPP	I <sub>MPP</sub>	[A]	6.75	6.86	6.95	7.02	7.09
	Voltage at MPP	V <sub>MPP</sub>	[V]	28.60	28.70	28.90	29.00	29.30

 $^1\text{Measurement tolerances P}_{\text{MPP}} \pm 3\%; \text{I}_{\text{SC}}; \text{V}_{\text{OC}} \pm 5\% \text{ at STC: } 1000 \text{W/m}^2, 25 \pm 2\,^{\circ}\text{C}, \text{AM 1.5G according to IEC } 60904 - 3 \cdot ^2800 \text{W/m}^2, \text{NMOT, spectrum AM 1.5G } 1000 \text{W/m}^2, \text{NMOT, spectrum AM 1.5G } 10000 \text{W/m}^2, \text{NMOT, spectrum$ 

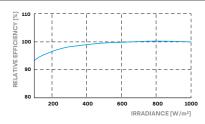
## Q CELLS PERFORMANCE WARRANTY

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At least 97% of nominal power during first year. Thereafter max. 0.6% 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 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							
Temperature Coefficient of I <sub>SC</sub>	α	[%/K]	+0.05	Temperature Coefficient of Voc	β	[%/K]	-0.31
Temperature Coefficient of P <sub>MPP</sub>	γ	[%/K]	-0.40	Normal Module Operating Temperature	NMOT	[°C]	43±3

# PROPERTIES FOR SYSTEM DESIGN

Maximum System Voltage	V <sub>SYS</sub>	[V]	1000	Safety Class	II
Maximum Reverse Current	I <sub>R</sub>	[A]	20	Fire Rating	С
Max. Design Load, Push/Pull		[Pa]	3600/2667	Permitted Module Temperature	-40°C - +85°C
Max. Test Load, Push / Pull		[Pa]	5400/4000	on Continuous Duty	

## **QUALIFICATIONS AND CERTIFICATES**

# PACKAGING INFORMATION

IEC 61215:2016; IEC 61730:2016, Application Class II; This data sheet complies with DIN EN 50380.





Number of Modules per Pallet	30
Number of Pallets per 40' HC-Container (26t)	28
Pallet Dimensions (L × W × H)	1700 × 1130 × 1160 mm
Pallet Weight	584 kg

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

Suite 1, Level 1, 15 Blue Street, Sydney, NSW 2060, Australia | TEL +61 (0)2 9016 3033 | FAX +61 (0)2 9016 3032 | EMAIL q-cells-australia@q-cells.com | WEB www.q-cells.com/au | WEB www.q-cells.co

