

# 435W Solar Panel

## High module conversion efficiency

- Module efficiency up to 22.3% achieved through advanced cell technology and manufacturing process

## Lower operating temperature

- Lower operating temperature and temperature coefficient increase the power output

## Excellent weak light performance

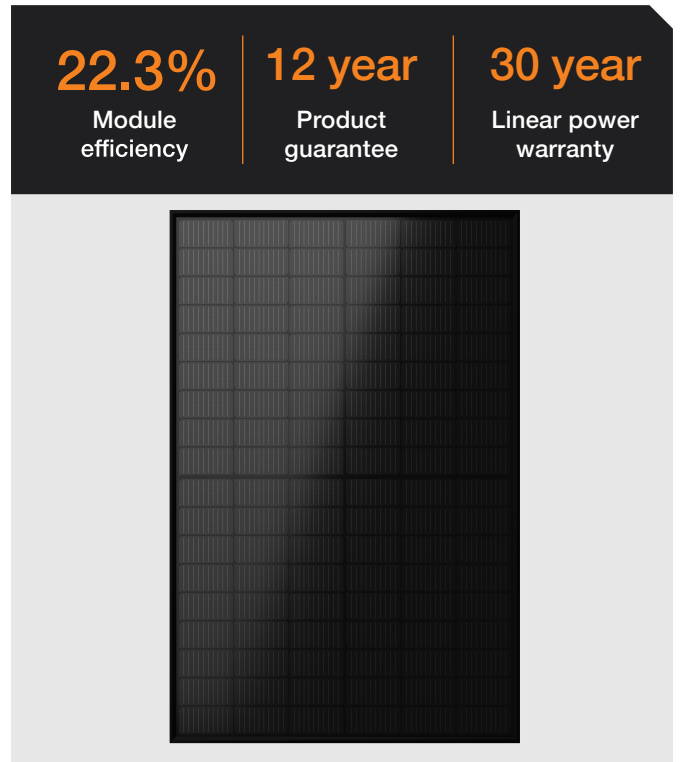
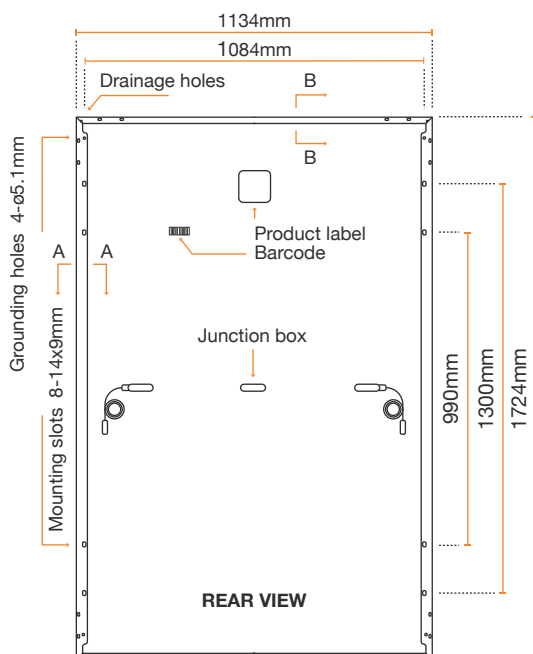
- More power output in weak light condition, such as cloudy, morning and sunset

## Extended wind and snow load tests

- Module certified to withstand extreme wind (2400 Pascal) and snow loads (5400 Pascal)

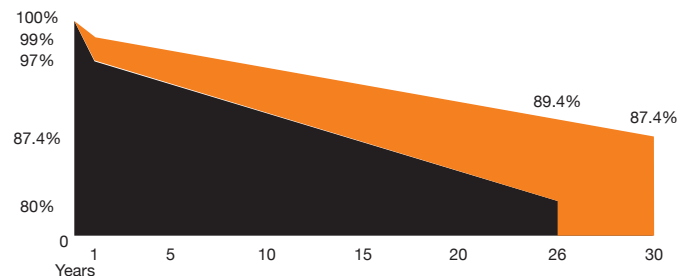
## IP68 junction box

- High waterproof and dustproof level



## Warranty

- Our Linear power guarantee
- Standard linear power guarantee



Electrical data	
Maximum Power Watts-Pmax*(Wp)*	435W
Maximum Power Voltage-Vmp (V)	32.7
Maximum Power Current-Imp (A)	13.31
Open Circuit Voltage (Voc/V)	39.3
Short Circuit Current (Isc/A)	14.10
Module Efficiency $\eta_m$ (%)	22.3
Power Tolerance (W)	0~+5

STC: Irradiance 1000W/m<sup>2</sup>, module temperature 25°C, AM=1.5;  
\*Measuring tolerance:  $\pm 3\%$

#### Electrical characteristics with different rear side power gain

Peak Power Pmax (Wp)*	525
Maximum Power Voltage-Vmp (V)	32.1
Maximum Power Current-Imp (A)	16.36
Open Circuit Voltage (Voc/V)	38.7
Short Circuit Current (Isc/A)	17.26
Pmax gain	25%

Power Bifaciality: 70 $\pm$ 5%

#### Electrical data (NMOT)

Maximum Power Watts-Pmax*(Wp)*	333
Maximum Power Voltage-Vmp (V)	30.8
Maximum Power Current-Imp (A)	10.82
Open Circuit Voltage (Voc/V)	37.2
Short Circuit Current (Isc/A)	11.41

NMOT: Irradiance 800W/m<sup>2</sup>, module temperature 20°C, AM=1.5; wind speed 1m/s

#### Mechanical specification

Solar cells	N-Type TOPCon Monocrystalline 182x91 mm
Cell orientation	108 cells (6x18)
Module Dimensions (mm)	1724 x 1134 x 30
Weight (kg)	25.1
Front glass	2.0mm tempered glass
Encapsulant material	POE/EVA
Back glass	2.0mm semi-tempered glass
No. of Bypass Diodes	3/6
Frame	Anodized Aluminium Alloy
Junction Box	IP68
Cables	Photovoltaic Technology cable 4.0mm <sup>2</sup> - Cable length 350mm or customised length

\*Please refer to regional datasheet for specified connector

Temperature ratings	
NMOT	42°C ( $\pm 2\%$ )
Temperature Coefficient Pmax	-0.30%/°C
Temperature Coefficient Voc	-0.25%/°C
Temperature Coefficient Isc	+0.045%/°C

(Do not connect Fuse in Combiner box with two or more strings in parallel connection)

#### Temperature ratings

Operating temperature	-40°C to +85°C
Maximum System Voltage	1500V DC (IEC)
Max Series Fuse Rating	25A

Packing configuration - 36 pcs/carton, 936 pcs/container

## IV Curve

