

# X-HALF CUT N-TYPE serie TOPCon

**565/580**<sub>Wp</sub>  
Power

**TOPCon** Cells

**Class 1**  
Fire reaction

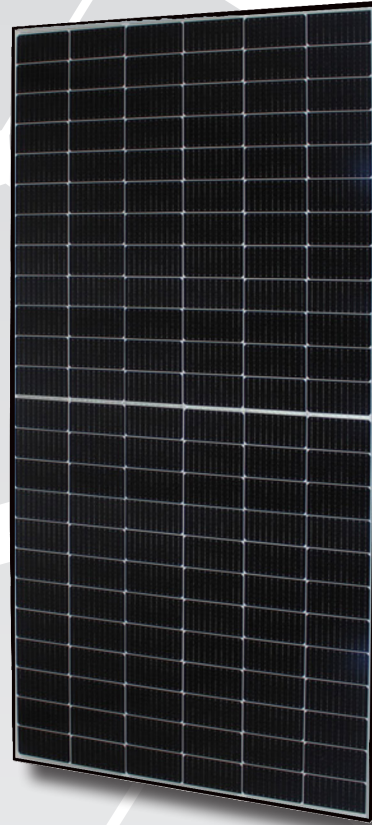
**5400 PA**  
Mechanical Load

**182x91**<sub>mm</sub>  
Cell Size

**22.45%**  
Module Efficiency

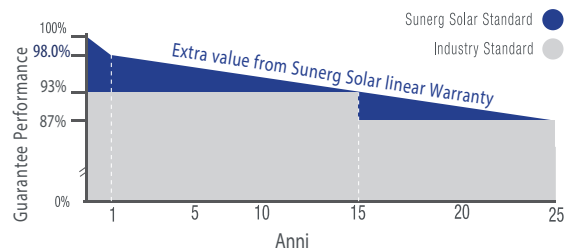
**15** years  
product warranty

**25** years  
linear warranty



X-HALF CUT N-Type serie TOPCON+ involves the introduction of a thin oxide layer between the metal contacts and the silicon wafer, which brings significant improvements in cell conversion efficiency and power generation performance.

## LINEAR WARRANTY



- look warranty terms -

CONFORM TO

| UNI9177 | PV CYCLE | CE |

UNI EN ISO 9001:2008  
UNI EN ISO 14001:2004

UNI EN BS OHSAS 18001:2007

| Quality management system

| Standards for environmental management system

| International standards for occupational health and safety

ELECTRICAL DATA (STC)		XMHCTQ565BW+H	XMHCTQ570BW+H	XMHCTQ575BW+H	XMHCTQ580BW+H
Open circuit Voltage	(Voc)	50.60 V	50.75 V	50.90 V	51.04 V
Voltage a Pmax.	(Vmp)	41.78 V	41.97 V	42.15 V	42.33 V
Short-circuit current	(Isc)	14.32 A	14.38 A	14.44 A	14.50 A
Current at Pmax.	(Imp)	13.53 A	13.59 A	13.65 A	13.71 A
Nominal Peak Power	(Pmax)	565 Wp	570 Wp	575 Wp	580 Wp
Cell Efficiency		24.70%	24.90%	25.20%	25.30%
Module Efficiency		21.87%	22.07%	22.26%	22.45%
Power output tolerance		-0 / + 5			
Maximum voltage		1500 V			
Maximum series fuse rating		25 A			
Limiting reverse current		20 A			
Operating Temperature		- 40°C to + 85°C			

\* STC (Standard test conditions)

Tolerance electric measurement and Power Output ±3%

Irradiance 1000 w/m<sup>2</sup>, temperature 25°C, AM= 1.5

### ELECTRICAL CHARACTERISTICS AT NOMINAL MODULE OPERATING TEMPERATURE (NMOT)

Peak Power	(Pmax)	427.8 W	431.6 W	435.4 W	439.2 W
Open Circuit Voltage	(Voc)	48.10 V	48.20 V	48.40 V	48.50 V
Short Circuit Current	(Isc)	11.57 A	11.62 A	11.67 A	11.71 A
MPP Voltage	(Vmp)	39.70 V	39.90 V	40.10 V	40.20 V
MPP Current	(Imp)	10.78 A	10.82 A	10.86 A	10.92 A

\* NMOT (Nominal Module Operating Temperature)

Irradiance 800 w/m<sup>2</sup>, temperature 20°C, wind speed 1 m/s

### TEMPERATURE COEFFICIENT

Pmax Temperature Coefficient	<b>-0.316%/ °C</b>
Voc Temperature Coefficient	<b>-0.249%/ °C</b>
Isc Temperature Coefficient	<b>0.045% / °C</b>

### MECHANICAL DATA

Maximum Load	<b>5400 Pa</b>
Dimensions (mm)	<b>2278 x 1134 x 35</b>
Weight (Kg)	<b>27.0</b>
Solar cells type	<b>N type Mono</b>
No. solar cells	<b>144 (6x24)</b>
Dim. solar cells	<b>182x91mm +/-1mm</b>

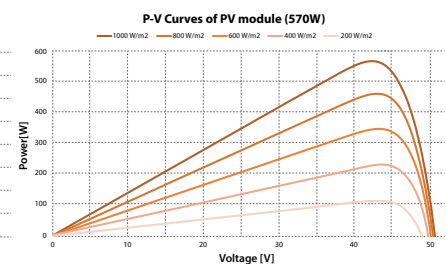
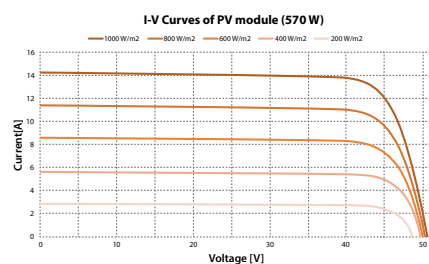
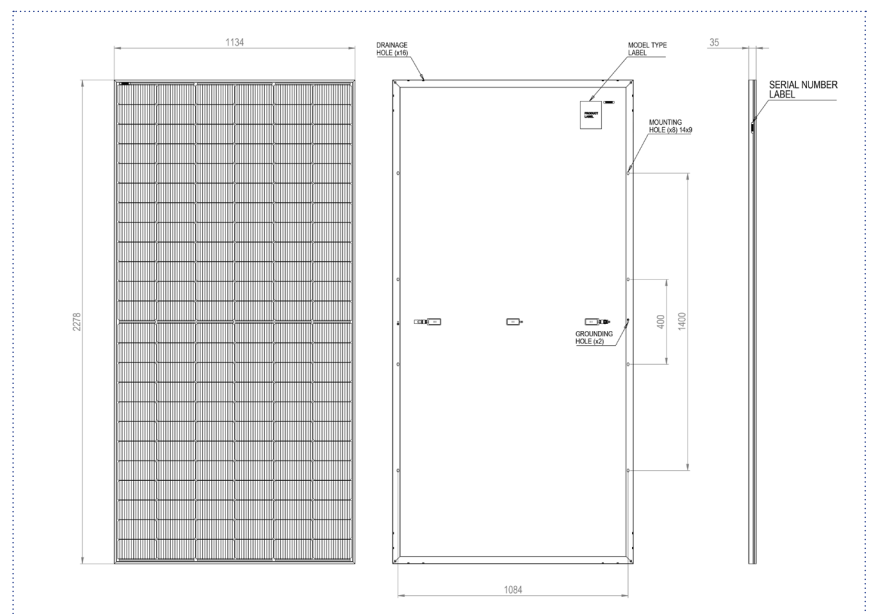
### GENERAL INFORMATION

Front Glass **3,2 mm, Tempered solar glass**

Frame **Anodized aluminum alloy, with twin-wall profile and drainage holes**

Junction Box **IP68 Rated with 3 Bypass diodes**

Output Cable **4.0mm<sup>2</sup>, 1400mm length, MC4 compatible connectors**



### PACKING CONFIGURATION

Module per Pallet	31 pcs.
Modules per container 40'HQ	682 pcs.

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