

X-HALF CUT N-TYPE serie TOPCon

565/580_{Wp}
Power

TOPCon Cells

Bifacial

Class 1
Fire reaction

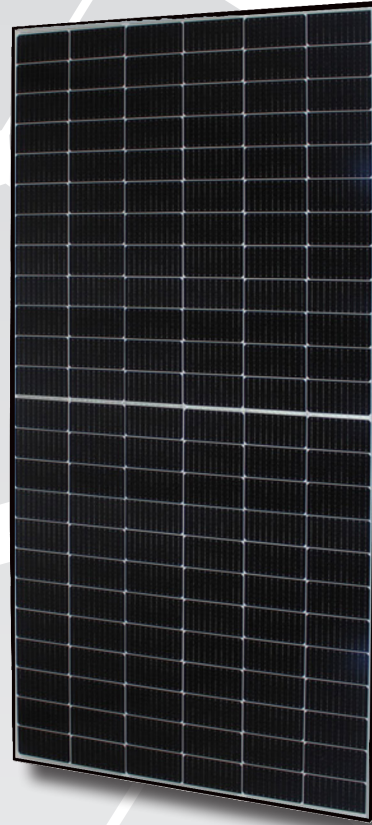
5400 PA
Mechanical Load

182x91_{mm}
Cell Size

22.45%
Module Efficiency

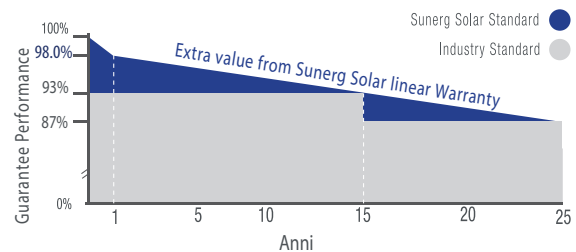
15 years
product warranty

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)		XMHCTQ565BFDG+H	XMHCTQ570BFDG+H	XMHCTQ575BFDG+H	XMHCTQ580BFDG+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		30 A			
Limiting reverse current		25 A			
Operating Temperature		- 40°C to + 85°C			

Irradiance 1000 w/m², temperature 25°C, AM= 1.5

Tolerance electric measurement and Power Output ±3%

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

* Irradiance 800 w/m², ambient temperature 20°C, WS= 1 m/s

ELECTRICAL PARAMETERS AT BIFACIAL NAME PLATE IRRADIANCE (BNPI)

Peak Power	(Pmax)	622 W	627 W	633 W	638 W
Open Circuit Voltage	(Voc)	50.60 V	50.75 V	50.90 V	51.04 V
Short Circuit Current	(Isc)	15.68 A	15.93 A	16.00 A	16.07 A
MPP Voltage	(Vmp)	41.78 V	41.97 V	42.15 V	42.33 V
MPP Current	(Imp)	14.89 A	14.94 A	15.02 A	15.07 A

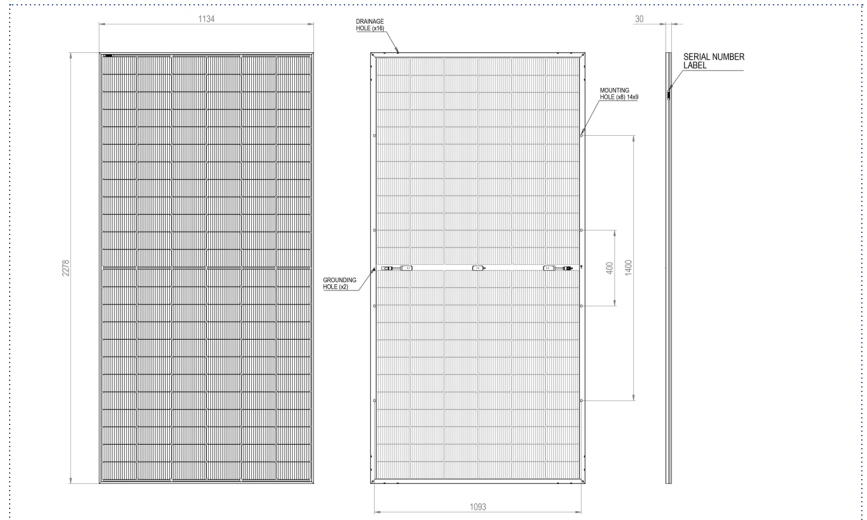
* Irradiance 1000 w/m², 135W/m²e 20°C, WS= 1 m/s

TEMPERATURE COEFFICIENT

Pmax Temperature Coefficient	-0.289%/ °C
Voc Temperature Coefficient	-0.244%/ °C
Isc Temperature Coefficient	0.045% / °C

MECHANICAL DATA

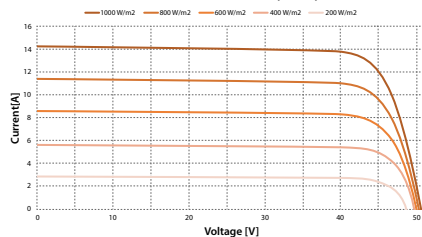
Maximum Load	5400 Pa
Dimensions (mm)	2278 x 1134 x 35
Weight (Kg)	30
Solar cells type	N type Mono
No. solar cells	144 (6x24)
Dim. solar cells	182x91mm +/-1mm



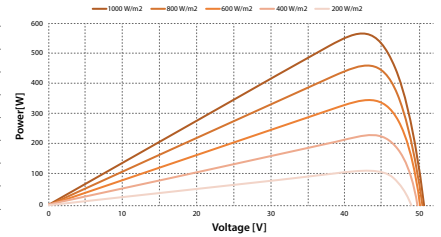
GENERAL INFORMATION

Front Glass	Tempered solar glass 2.0 mm
Back Glass	Semi-tempered glass 2.0 mm
Frame	Anodized aluminum alloy, with twin-wall profile and drainage holes
Junction Box	IP68 Rated with 3 Bypass diodes
Output Cable	4.0mm², 1100mm length, MC4 compatible connectors

I-V Curves of PV module (570 W)



P-V Curves of PV module (570W)



PACKING CONFIGURATION

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

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