



# X-HALF CUT N-TYPE serie TOPCon +

**500/525<sub>Wp</sub>**  
Power

**TOPCon +**  
Technology Innovation

**Bifacial**

**Class 1**  
fire reaction

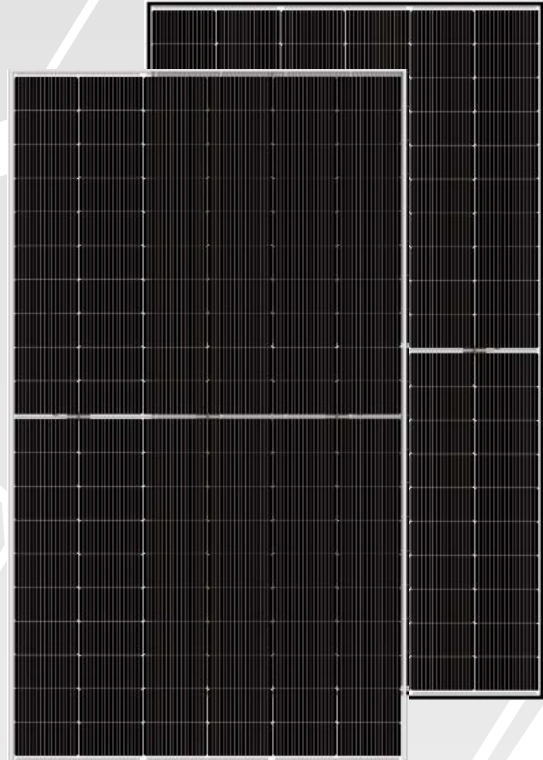
**23.22%**  
Efficiency

**182 x 95.8**  
Cell Size

**-0.290%/°C**  
Temperatura coefficiente

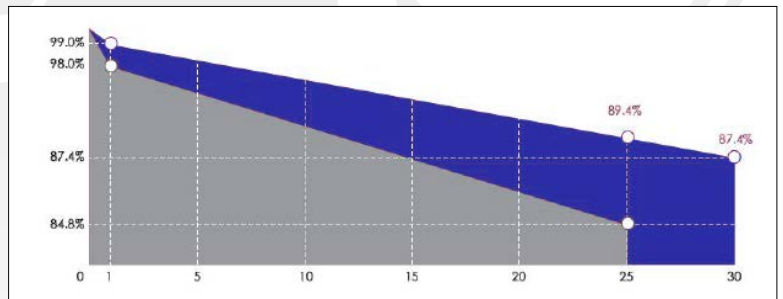
**15 years**  
Product warranty

**30 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 -

CORRESPOND TO

| UNI 9177 | PV CYCLE | CE |

UNI EN ISO 9001:2015  
UNI EN ISO 14001:2015  
UNI EN BS OHSAS 45001:2018

| Quality management system  
| Standards for environmental management system  
| International standards for occupational health and safety

ELECTRICAL DATA (STC)		XMHCTP500BFDG+H	XMHCTP505BFDG+H	XMHCTP510BFDG+H	XMHCTP515BFDG+H	XMHCTP520BFDG+H	XMHCTP525BFDG+H
Open circuit Voltage	(Voc)	43.70 V	43.90 V	44.10 V	44.30 V	44.50 V	44.70 V
Voltage at Pmax.	(Vmp)	37.10 V	37.30 V	37.50 V	37.70 V	37.90 V	38.10 V
Short-circuit current	(Isc)	14.48 A	14.54 A	14.60 A	14.66 A	14.72 A	14.78 A
Current at Pmax.	(Imp)	13.48 A	13.54 A	13.60 A	13.66 A	13.72 A	13.78 A
Nominal Peak Power	(Pmax)	500 Wp	505 Wp	510 Wp	515 Wp	520 Wp	525 Wp
Module Efficiency		22.11%	22.33%	22.55%	22.78%	23.00%	23.22%
Power output tolerance		0 ~ + 5W					
Maximum voltage		1500 V DC					
Maximum series fuse rating		30 A					
Operating Temperature		- 40°C ~ +85°C					

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

ELECTRICAL DATA (NOCT)		XMHCTP500BFDG+H	XMHCTP505BFDG+H	XMHCTP510BFDG+H	XMHCTP515BFDG+H	XMHCTP520BFDG+H	XMHCTP525BFDG+H
Peak Power	(Pmax)	376 Wp	380 Wp	384 Wp	387 Wp	391 Wp	395 Wp
Open Circuit Voltage	(Voc)	41.50 V	41.70 V	41.90 V	42.10 V	42.30 V	42.50 V
Short Circuit Current	(Isc)	11.69 A	11.74 A	11.79 A	11.84 A	11.88 A	11.93 A
MPP Voltage	(Vmp)	35.20 V	35.40 V	35.60 V	35.80 V	36.00 V	36.20 V
MPP Current	(Imp)	10.67 A	10.72 A	10.77 A	10.81 A	10.86 A	10.91 A

\* Irradiance 800 w/m2, ambient temperature 20°C, AM= 1.5 , WS= 1 m/s

DOUBLE-SIDED POWER GENERATION PARAMETERS (REAR GAIN)		XMHCTP500BFDG+H	XMHCTP505BFDG+H	XMHCTP510BFDG+H	XMHCTP515BFDG+H	XMHCTP520BFDG+H	XMHCTP525BFDG+H
Peak Power (5%)	(Pmax)	525 Wp	530 Wp	536 Wp	541 Wp	546 Wp	551 Wp
Module Efficiency (5%)		23.20%	23.40%	23.70%	23.90%	24.10%	24.40%
Peak Power (15%)	(Pmax)	575.0 Wp	580.8 Wp	586.5 Wp	592.3 Wp	598.0 Wp	603.8 Wp
Module Efficiency (15%)		25.40%	25.70%	25.90%	26.20%	26.40%	26.70%
Peak Power (25%)	(Pmax)	625.0 Wp	631.3 Wp	637.5 Wp	643.8 Wp	650.0 Wp	656.6 Wp
Module Efficiency (25%)		27.60%	27.90%	28.20%	28.50%	28.70%	29.00%

### TEMPERATURE COEFFICIENT

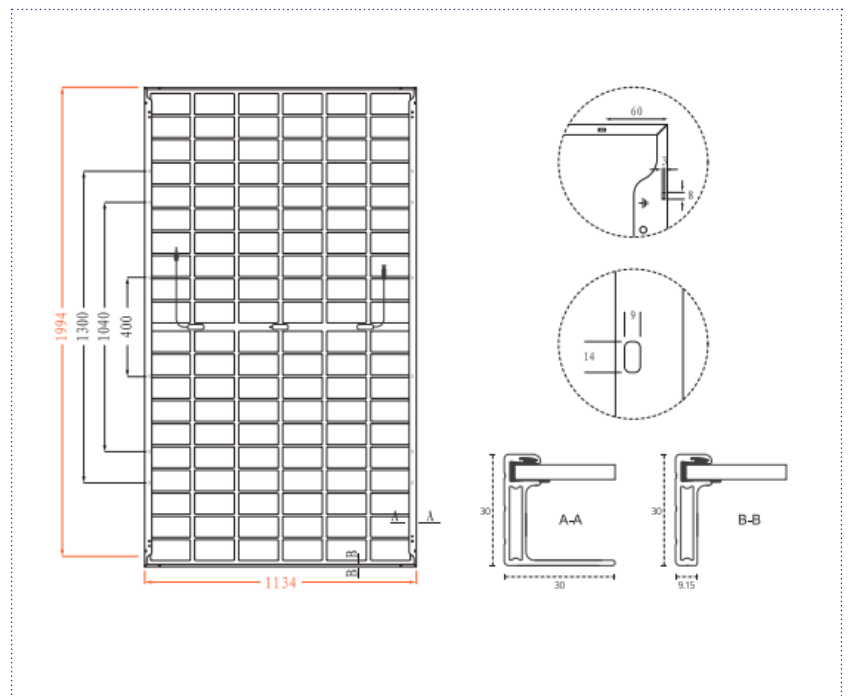
NOCT	<b>45°C±2°C</b>
Pmax Temperature Coefficient	<b>-0.290%/ °C</b>
Voc Temperature Coefficient	<b>-0.250%/ °C</b>
Isc Temperature Coefficient	<b>0.046% / °C</b>

### MECHANICAL CHARACTERISTIC

Maximum Load	<b>5400 Pa / 2400 Pa</b>
Dimensions (mm)	<b>1994 x 1134 x 30</b>
Weight (Kg)	<b>27.0</b>
Solar cells type	<b>N type Mono</b>
No. solar cells	<b>120 (6x20)</b>
Cells dim. (mm)	<b>182 x 95.8</b>
Refer Bifacial Factor	<b>80 ± 5%</b>

### PACKING CONFIGURATION

Module per Pallet	<b>36 pcs</b>
Modules per container 40'HQ	<b>792 pcs</b>



### GENERAL INFORMATION

Glass	<b>2.0 mm high transmission, antireflection coating</b>
Junction Box	<b>IP68, 3 Bypass Diodes</b>
Output Cable	<b>4.0mm², 300/200mm in length (including connector) length can be customized</b>
Connector	<b>MC4 compatible</b>

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